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July 30, 2006

Ms. Colleen Stone
California Regional Water Quality Control Board
North Coast Region
5550 Skylane Boulevard Suite A
Santa Rosa, California 95403

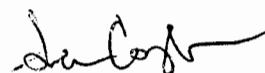
RE: **Quarterly Monitoring and Remediation Summary Report – Second Quarter 2006**
SECOR Project No.: 77CP.00927.00.0304

Dear Ms. Stone:

On behalf of ConocoPhillips, SECOR International Incorporated (SECOR) is forwarding the quarterly summary report for the following location:

<u>Service Station</u>	<u>Location</u>
Bulk Plant No. 0220	720 North Franklin Street Fort Bragg, California

Sincerely,
SECOR International Incorporated


Sean Coyle
Project Manager

cc: Mr. Thomas Kosel, ConocoPhillips
Mr. David Smith, Mendocino Coast Petroleum, Inc. 720 N Franklin St. Fort Bragg,
CA 95437
Mendocino County Health Department, 501 Low Gap Road, Room 1326, Ukiah,
CA 95482

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QUARTERLY SUMMARY AND REMEDIAL STATUS REPORT Second Quarter 2006

Bulk Plant No. 0220
720 North Franklin Street
Fort Bragg, California

City/County ID #: Fort Bragg

County: Mendocino

SITE DESCRIPTION

The site is located near the north end of the city of Fort Bragg at the corner of Franklin Street and Spruce Street. Pudding Creek is located approximately 1,200 feet north of the site, and the Pacific Ocean is located approximately 2,400 feet west of the site. The facility was built in 1924 and currently consists of a storehouse, an office, a drum storage and filling area, five above-ground storage tanks (ASTs), a pump area, and loading racks. Former components of the facility included two 550-gallon underground spill containment tanks (SCTs) used to collect overflow spillage, and a pump area. Product was historically supplied to the bulk plant by rail and for the past 30 years by truck. There are two separate unloading racks: one was to service rail cars (currently not in use) and the other to service trucks. Both the train and truck unloading racks serviced the bulk storage ASTs and loading rack via underground pipelines. The tank farm has a capacity of 85,000 gallons of storage with four 20,000-gallon ASTs and one 5,000-gallon AST.

PREVIOUS INVESTIGATIONS AND REMEDIAL ACTIVITIES

In September 1988, Kaprealian Engineering Incorporated (KEI) conducted a preliminary site investigation that included the installation of six borings for soil and groundwater sampling (EB-1 through EB-6). The borings were advanced to a total depth ranging from 17 to 19 feet below ground surface (bgs). Total petroleum hydrocarbons with gasoline distinction (TPHg) and total petroleum hydrocarbons with diesel distinction (TPHd) were detected in soil at concentrations ranging from 80 milligrams per kilogram (mg/kg) to 340 mg/kg, respectively (KEI, 1988).

On January 23, 1989, KEI oversaw the installation of four monitoring wells (MW-1 through MW-4) at the site. The wells were installed at depths ranging from 20 to 25.5 feet bgs. Groundwater was encountered at depths ranging from 10.5 to 14 feet bgs. All soil samples taken from the monitoring wells recorded non-detectable concentrations of TPHg, TPHd, benzene, toluene, ethyl-benzene and

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total xylenes (BTEX) except the ten foot sample from MW-4 which recorded a concentration of 790 mg/kg TPHg. Groundwater samples taken from the wells contained concentrations of benzene ranging from 4.1 to 87 micrograms per liter ($\mu\text{g}/\text{L}$), TPHg 2,800 to 8,800 $\mu\text{g}/\text{L}$, and TPHd 1,900 to 160,000 $\mu\text{g}/\text{L}$ (KEI, 1989a).

On March 29, 1989, KEI oversaw the installation of five additional monitoring wells (MW-5 through MW-9) at the site. The wells were installed at depths ranging from 18 to 20 feet bgs. Groundwater was encountered at depths ranging from 9 to 15.5 feet bgs. Soil samples from the borings were analyzed for TPHg, TPHd, and BTEX. TPHg was found in the 10-foot sample from MW-5 at a concentration of 1.1 mg/kg. TPHd was detected in soil from MW-6 at a concentration of 400 mg/kg (KEI, 1989b).

On July 26, 1989, KEI oversaw the installation of two additional monitoring wells (MW-10 and MW-11) at the site. The wells were installed at depths ranging from 19 to 20 feet bgs. Soil samples from the borings were analyzed for TPHg, TPHd, and BTEX. TPHg and TPHd were found in the 13 foot sample from MW-11 at concentrations of 31 mg/kg and 120 mg/kg, respectively. Groundwater samples taken from the MW-10 and MW-11 contained TPHd at concentrations of 180 $\mu\text{g}/\text{L}$ and 540 $\mu\text{g}/\text{L}$, respectively (KEI, 1989c).

On September 1, 1995, KEI oversaw the installation of one additional groundwater monitoring well (MW-12) at the site. The well was installed at a depth of 19 feet bgs. Soil samples from the boring were analyzed for TPHg, TPHd, and BTEX. All soils recorded non-detectable concentrations of all analytes. Groundwater samples taken from the well contained TPHg, TPHd, benzene, toluene, and ethylbenzene at concentrations of 430 $\mu\text{g}/\text{L}$, 220 $\mu\text{g}/\text{L}$, 7.2 $\mu\text{g}/\text{L}$, 51 $\mu\text{g}/\text{L}$, and 12 $\mu\text{g}/\text{L}$, respectively (KEI, 1995).

In December 1996, KEI oversaw the removal of two 550-gallon spill containment tanks. During the excavation, KEI conducted a limited excavation around the vicinity of the tanks.

In February 1997, Pacific Environmental Group (PEG) conducted a Phase I site assessment of the site. To follow up with this assessment, on September 25, 1997, PEG oversaw the advancement of five soil borings (SB-1 through SB-4 and HB-1). The borings were advanced to depths ranging from 17.7 to 35 feet bgs. Soil samples analyzed from HB-1, SB-1, and SB-4 contained relatively low concentrations of TPHg and TPHd. The highest concentration of TPHg (37 mg/kg) and TPHd (28 mg/kg) were seen in the five-foot sample taken from SB-1 (PEG, 1998).

In February 1998, the quarterly monitoring activities at the site were taken over by Gettler-Ryan (GRI).

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In September 1998, SHN Consulting Engineers & Geologists Inc. (SHN) prepared an interim corrective action plan (ICAP) for the site. In the ICAP, SHN recommended the installation of a supplemental oxygen source to enhance bioremediation processes at the site (SHN, 1998).

On April 12, 1999, SHN performed an additional subsurface investigation at the site. During the investigation, ten soil borings (SB-101 through SB-110) were advanced and abandoned, aquifer slug tests were performed on existing groundwater monitoring wells, and petroleum hydrocarbon fingerprinting was performed on the groundwater from the site. Based on the results of these three tests, SHN recommended the installation of a biosparge system (SHN, 1999).

During May and June of 2000, SHN supervised the installation of one bioventing test well, two biosparge wells, and three bioventing observations wells. A bioventing pilot test and a biosparge pilot test were conducted to determine the effectiveness of each method for site remediation. Based on the results of the pilot tests, the anticipated radius of influence for a bioventing system is 30 feet per well (SHN, 2000).

On December 5, 2002, SHN recommended the installation of 7 additional bioventing wells and 20 additional ozone sparge points at the site (SHN, 2002).

On October 7 and 10, 2003, SHN oversaw the installation of biovent wells (BV-2 through BV-8) and 20 ozone sparge wells (SP-1 through SP-20). Soil samples were analyzed from all the borings. The highest concentrations of hydrocarbons were found in soils taken from SP-7 and SP-18 (SHN, 2004). The biovent system was activated on April 5, 2004 and the Ozone Injection system was activated on May 26, 2004.

SECOND QUARTER 2006 SUMMARY

Quarterly groundwater monitoring and sampling was conducted by TRC on May 4, 2006 in accordance with RWQCB-NCR MRP No. R1-2003-0107 (Attachment 1). The current groundwater monitoring network consists of six onsite wells (MW-1 through MW-4, MW-6 and MW-7) and six offsite wells (MW-5 and MW-8 through MW-12) located in Spruce Street and Franklin Street. Soil borings and well construction details are presented in Table 1. Wells MW-2, MW-3, MW-5, MW-10 and MW-12 are sampled semi-annually (first and third quarters). Wells MW-6, MW-7, and MW-9 are sampled annually, and wells MW-1, MW-4, MW-8, and MW-11 are sampled quarterly. All wells will be monitored for depth to groundwater quarterly. The monitoring and sampling plan is summarized in Table 2.

During the second quarter 2006, depth to groundwater was gauged in each monitoring well. In accordance with the Monitoring Reporting Program (MRP), groundwater samples from each monitoring well are monitored quarterly for dissolved oxygen, dissolved carbon dioxide, oxidation-reduction potential, pH, temperature and conductivity. The samples were also analyzed for TPHg,

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BTEX, and methyl tertiary butyl ether (MTBE). Additionally, the headspace in each monitoring well was monitored quarterly for percent oxygen, percent carbon dioxide, and percent organic vapor.

Historical groundwater elevation and analytical data through the second quarter 2006, TRC's monitoring and sampling procedures, certified laboratory analytical report, chain-of-custody documentation, field data sheets, and waste water disposal procedures are presented in TRC's *Quarterly Monitoring Report April Through June 2006*, dated June 23, 2006, included in Attachment 2. A summary of the second quarter 2006 groundwater monitoring and sampling results is presented below.

SECOND QUARTER 2006 MONITORING AND SAMPLING RESULTS

Groundwater Monitoring and Gradient Data

Depth to groundwater in the twelve site wells ranged from 7.91 feet (MW-9) to 12.65 feet below top of casing (MW-5). Groundwater levels reported during the second quarter 2006 were consistent with historical levels, which have ranged between 5.08 feet and 24.87 feet below top of casing. Groundwater elevations in the site wells during the second quarter 2006 ranged from approximately 66.22 feet (MW-12) above mean sea level (msl) to 70.16 feet above msl (MW-4). Regional groundwater flow during the second quarter 2006 was northwesterly at a hydraulic gradient of 0.02 feet per foot, which is consistent with the groundwater flow direction and hydraulic gradient data reported over previous quarters (Table 3). A groundwater elevation contour map was prepared by TRC using monitoring data collected on May 4, 2006 and is presented in Attachment 2.

Groundwater Quality Data

Groundwater samples were collected from wells MW-1, MW-4, MW-8, and MW-11 on May 4, 2006. Groundwater analytical results and TPHd and TPHg isoconcentration maps are included in TRC's *Quarterly Monitoring Report April through June 2006*, dated June 21, 2006 (Attachment 2).

The dissolved plume within the shallow zone continues to be centered around the ASTs located on the north edge of the property. The heart of the plume is centered at MW-8 and MW-4. Concentrations of TPHg, TPHd, BTEX, and MTBE this quarter were generally consistent with historical levels.

The highest concentrations of petroleum hydrocarbons were detected in wells MW-4 and MW-8 during the second quarter 2006. During the second quarter 2006, the groundwater sample collected from wells MW-4 and MW-8 had site maximum concentrations of TPHd (6,000 ug/L) and TPHg (8,000 ug/L). The concentrations of TPHg and TPHd were generally consistent with historical values. MTBE and BTEX were not detected in any wells sampled during this period. These results are consistent with recent stable trends. Sample parameters are presented in Table 4.

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Remediation Compliance Sampling

During the second quarter 2006, SECOR sampled MW-1, MW-4, and MW-8 on April 5, May 3, and June 15, 2006. MW-1 had concentrations of TPHd at 110 µg/L (4/5/06), 55 µg/L (5/3/06), and 410 µg/L (6/15/06). Gasoline range organics (GRO) were detected at concentrations of less than 50 mg/L for the entire quarter. MW-4 had concentrations of diesel at 1,100 µg/L (5/3/06) and 410 µg/L (6/15/06). GRO was detected at a concentration of 300 µg/L (4/5/06), 930 µg/L (5/3/06) and 210 µg/L (6/15/06). MW-8 had concentrations of TPHd at 970 µg/L (4/5/06), 780 µg/L (5/3/06), and 1,900 µg/L (6/15/06). GRO at a concentration of 410 µg/L (4/5/06), 130 µg/L (5/3/06) and 76 µg/L (6/15/06).

The field notes, certified laboratory analytical report and chain-of-custody documentation are included as Attachment 3.

Plume Status

In the most recent samples collected from each well, petroleum hydrocarbons in shallow groundwater were detected at MW-1, MW-4, MW-8, and MW-11. The extent of dissolved petroleum hydrocarbons in shallow groundwater is defined downgradient (northwest), except for TPHd at MW-10, and cross-gradient (southwest-northeast) of the site at MW-6 and MW-5. The extent of dissolved petroleum hydrocarbons in shallow groundwater has been defined upgradient of well MW-4 by no detected concentrations of petroleum hydrocarbons in MW-5.

MTBE has been detected in both on-site and off-site wells. Generally, detection is sporadic, at low concentrations, and limited to on-site wells MW-1 and MW-2 and offsite wells MW-8 through MW-12. MTBE were not detected in the most recent sample collected wells, MW-1, MW-4, MW-8, and MW-11.

BTEX have also been detected in both on-site and off-site wells. Generally, detection is sporadic and concentrations are low. BTEX were not detected in the most recent sample collected from each well.

STATUS OF REMEDIAL ACTION

The system experienced electrical damage on August 9, 2005, and remained non operational through the second quarter 2006. SECOR will be submitting a workplan along with this quarterly report detailing plans for the repair and replacement of the ozone injection system. Remedial system field data sheets for the Ozone System are included in Attachment 3. Operational data for the Ozone System are summarized in Table 5. Ozone injection - groundwater monitoring data is

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summarized in Table 6. Concentration vs. Time Graphs for the Ozone Injection Monitoring Wells can be found in Attachment 4.

WASTE DISPOSAL

The volume of purged groundwater generated and disposed during the quarterly groundwater monitoring event is documented in TRC's Quarterly *Monitoring Report, April Through June 2006* dated June 23, 2006 (Attachment 2).

RECENT SUBMITTALS/CORRESPONDENCE

SECOR's: *Quarterly Summary Report – First Quarter 2006*.

WORK COMPLETED IN SECOND QUARTER 2006

1. TRC performed quarterly groundwater monitoring and sampling at the site.
2. SECOR prepared and submitted first quarter 2006 quarterly summary and monitoring report.
3. SECOR evaluated status of the ozone and biovent systems.

PROPOSED ACTIVITIES FOR THIRD QUARTER 2006

1. TRC to conduct groundwater monitoring and sampling.
2. SECOR to prepare and submit quarterly summary report.
3. SECOR to perform operations and maintenance on the ozone and biovent systems.
4. Installing three off-site monitoring wells northwest of the site to delineate the downgradient extent of petroleum impacts observed in groundwater related to the subject site.
5. Removal of the non-repairable existing ozone sparge system and replacement with a new more reliable brand of ozone sparge system.

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LIMITATIONS

This report presents our understanding of existing conditions at the subject site. The conclusions contained herein are based on the analytical results, and professional judgment in accordance with current standards of professional practice; no other warranty is expressed or implied. SECOR assumes no responsibility for exploratory borings or data reported by other consultants or contractors.

Sincerely,

SECOR International Incorporated



Ed Simonis, P.G.
Senior Geologist



Ben McKenna
Project Geologist

Attachments:	Table 1 Soil Boring and Well Construction Details
	Table 2 Monitoring and Sampling Plan
	Table 3 Historical Groundwater Flow Direction and Gradient Data
	Table 4 Sample Parameters
	Table 5 Ozone Injection – System Operation Data
	Table 6 Ozone Injection – Groundwater Monitoring Data

- Attachment 1 RWQCB-NCR MRP No. R1-2003-0107
- Attachment 2 TRC's *Quarterly Monitoring Report April through June*, dated June 23, 2006
- Attachment 3 Field data sheets and Certified Laboratory Analytical Report and Chain-of-Custody Documentation
- Attachment 4 Concentration vs. Time Graphs – Ozone Injection Monitoring Wells

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TABLES

Table 1
Soil Boring and Well Construction Details

Bulk Plant No. 0220
720 North Franklin Street
Fort Bragg, California

Well I.D.	Date Installed	TOC/PVC		Ground Surface Elevation		Well Depth		Well Screen		Well Screen Bottom		Filter Pack Top		Filter Pack Bottom		Filter Pack Top		Filter Pack Bottom		Ben-tonite Top		Ben-tonite Bottom	
		(feet, MSL)	(feet, bgs)	(feet, MSL)	(feet, bgs)	Diameter (inches)	(feet, bgs)	Top (feet, bgs)	(feet, MSL)	Bottom (feet, bgs)	(feet, MSL)	Top (feet, bgs)	(feet, MSL)	Bottom (feet, bgs)	(feet, MSL)	Top (feet, bgs)	(feet, MSL)	Bottom (feet, bgs)	(feet, MSL)	Top (feet, bgs)	(feet, MSL)	Bottom (feet, bgs)	(feet, MSL)
MW-1	01/23/89	-	-	20.5	-	2	10.5	-	20.5	-	8	-	20.5	-	6	-	8	-	6	-	8	-	
MW-2	01/24/89	-	-	25.5	-	2	10.5	-	25.5	-	8	-	25.5	-	6	-	8	-	6	-	8	-	
MW-3	01/24/89	-	-	22.0	-	2	10.0	-	22	-	8	-	22	-	6	-	8	-	6	-	8	-	
MW-4	01/24/89	-	-	20	-	2	10.0	-	20	-	8	-	20	-	6	-	8	-	6	-	8	-	
MW-5	03/29/89	-	-	20	-	2	10.0	-	20	-	8	-	20	-	6	-	8	-	6	-	8	-	
MW-6	03/29/89	-	-	18.0	-	2	8.0	-	18	-	8	-	18	-	6	-	8	-	6	-	8	-	
MW-7	03/29/89	-	-	18.0	-	2	8.0	-	18	-	8	-	18	-	6	-	8	-	6	-	8	-	
MW-8	03/29/89	-	-	18.0	-	2	8.0	-	18.0	-	6	-	18	-	4	-	6	-	4	-	6	-	
MW-9	03/29/89	-	-	19.0	-	2	9.0	-	19.0	-	7	-	19	-	5	-	7	-	5	-	7	-	
MW-10	7/26/89	-	-	19	-	2	4.0	-	19.0	-	3	-	19	-	1	-	3	-	1	-	3	-	
MW-11	7/26/89	-	-	20	-	2	4.0	-	20.0	-	3	-	20	-	1	-	3	-	1	-	3	-	
MW-12	9/19/95	-	-	20.0	-	2	4.0	-	19.0	-	3	-	19	-	2	-	3	-	2	-	3	-	

Explanations:

feet MSL = Elevation in feet relative to mean sea level.

TOC = Top of well casing.

bgs = Below ground surface.

PVC = Polyvinyl chloride.

- = Data unavailable

Table 2
Monitoring and Sampling Plan
 Bulk Plant No. 0220
 720 North Franklin Street
 Fort Bragg, California

Well ID	First Quarter		Second & Fourth Quarters		Third Quarter	
	MRP No. R1-2003-0107	Monitor DTW	Sample	MRP No. R1-2003-0107	Monitor DTW	MRP No. R1-2003-0107
MVW-1	1	1	1	1	1	1
MVW-2	1	1	1	1	1	1
MVW-3	1	1	1	1	1	1
MVW-4	1	1	1	1	1	1
MVW-5	1	1	1	1	1	1
MVW-6	1	1	1	1	1	1
MVW-7	1	1	1	1	1	1
MVW-8	1	1	1	1	1	1
MVW-9	1	1	1	1	1	1
MW-10	1	1	1	1	1	1
MW-11	1	1	1	1	1	1
MW-12	1	1	1	1	1	1
Totals	12	12	3	12	9	9

Table 3
Historical Groundwater Flow Direction and Gradient Data

Bulk Plant No. 0220
 720 North Franklin Street
 Fort Bragg, California

Date	Average Groundwater Flow Direction	Average Gradient (ft/ft)
2/19/1999	NW	0.02
5/19/1999	NW	0.02
8/5/1999	WNW	0.03
11/24/1999	NW	0.04
2/15/2000	NW	0.02
3/11/2000	NW	0.02
8/9/2000	WNW	0.01 to 0.06
11/27/2000	WNW	0.01 to 0.04
2/14/2001	NW	0.02 to 0.07
5/11/2001	NW	0.01 to 0.03
8/9/2001	NW	0.01 to 0.05
11/30/2001	NW	0.02 to 0.04
2/7/2002	NW	0.01 to 0.03
5/10/2002	NW	0.01 to 0.04
8/15/2002	NW	0.02 to 0.04
11/14/2002	NW	0.02 to 0.06
2/13/2003	WNW	0.01 to 0.03
5/16/2003	NW	0.01 to 0.02
8/12/2003	NNW	0.01 to 0.07
12/22/2003	NW	0.02
2/24/2004	NW	0.02
5/6/2004	NW	0.02
8/4/2004	NW	0.02
11/10/2004	NW	0.02
2/3/2005	NW	0.02
5/5/2005	NW	0.02
8/4/2005	NW	0.02
11/3/2005	NW	0.025
2/2/2006	NW	0.03
5/4/2006	NW	0.02
<u>Notes:</u>		
ft/ft	Feet per foot	
NW	Northwest	
WNW	West Northwest	
NNW	North Northwest	
Historical groundwater flow directions above are interpreted by SECOR based on a review of historical figures created by Gettler-Ryan Inc. and TRC.		

Table 4
Sample Parameters

Bulk Plant No. 0220
720 North Franklin Street
Fort Bragg, California

Table 4
Sample Parameters

Bulk Plant No. 0220
720 North Franklin Street
Fort Bragg, California

Date Sampled	Pre-Purge Dissolved Oxygen (mg/l)	Post Purge Dissolved Oxygen (mg/l)	Dissolved Carbon Dioxide (µg/l)	Oxidation-Reduction Potential	Conductivity (µS/cm)	Temp (°C)	pH	Head Space			Nitrate, NO ₃ (mg/l)	Sulfate, SO ₄ (mg/l)	Ferrous Iron, Fe (II+) (mg/l)
								Carbon Dioxide (%)	Oxygen (%)	Organic Vapor (ppm)			
08/04/04	4.64	--	--	9	--	--	--	--	--	--	<1.0	5.1	3.3
11/10/04	1.48	--	--	--	--	--	--	--	--	--	--	--	--
02/03/05	1.21	--	11	16	295	20.1	6.02	0.10	21.60	0.00	1.1	76	2.4
05/05/05	0.84	--	15	147	218	14.5	6.07	0.00	20.90	0.00	--	--	--
08/04/05	1.53	--	27	189	162	14.4	6.08	0.10	20.90	0.00	<1.0	12	0.41
11/03/05	1.20	--	6	066	287	14.6	5.14	0.00	20.90	2.50	--	--	--
02/02/06	1.01	--	9	099	282	14.5	5.50	0.00	20.90	2.10	5.4	22	--
05/04/06	0.75	--	6	248	0.17	60.5	3.25	0.00	21.20	1.80	--	--	--
MW-5													
08/22/95	--	--	--	--	--	--	--	--	--	--	--	--	--
05/19/99	0.32	0.38	--	--	--	--	--	--	--	--	--	--	--
08/05/99	6.94	4.31	--	--	--	--	--	--	--	--	--	--	--
02/15/00	9.11	8.96	--	129	--	--	--	--	--	--	--	--	--
08/09/00	6.45	4.90	5.70	94	--	--	--	--	--	--	--	--	--
05/06/04	3.29	--	--	166	--	--	--	--	--	--	--	--	--
08/04/05	2.77	--	21	37	167.8	15.0	5.75	0.10	20.90	0.00	--	--	--
11/03/05	3.48	--	6	-014	173.5	13.8	5.95	0.00	20.90	0.00	--	--	--
02/02/06	5.24	3.73	12	087	200	14.6	6.16	0.00	20.90	0.00	--	--	--
05/04/06	1.93	--	4	106	0.16	56.4	3.90	0.20	21.30	0.00	--	--	--
MW-6													
08/22/95	--	--	--	--	--	--	--	--	--	--	--	--	--
05/19/99	0.32	0.32	--	--	--	--	--	--	--	--	--	--	--
08/05/99	5.11	5.10	--	--	--	--	--	--	--	--	--	--	--
02/15/00	6.23	5.90	--	203	--	--	--	--	--	--	--	--	--
08/09/00	7.06	6.84	ND	266	--	--	--	--	--	--	--	--	--
02/24/04	2.19	--	60.00	170	--	--	--	--	--	--	--	--	--
05/06/04	1.59	--	--	210	--	--	--	--	--	--	--	--	--
02/03/05	1.71	--	13	21	203.5	22.7	6.09	0.40	21.70	0.00	--	--	--
05/05/05	1.65	--	6	98	--	--	--	0.50	20.90	0.00	--	--	--
08/04/05	4.44	--	7	203	165	16.0	6.02	0.10	20.90	0.00	--	--	--
11/03/05	4.09	--	7	015	199.1	15.8	6.05	0.00	20.90	0.00	--	--	--
02/02/06	1.01	2.22	8	067	202	16.4	6.14	0.00	20.90	0.00	--	--	--
05/04/06	2.28	--	8	221	0.18	60.9	3.24	0.00	21.30	0.00	--	--	--
MW-7													
08/22/95	--	--	--	--	--	--	--	--	--	--	--	--	--
05/19/99	0.38	0.51	1.6	50.1	--	--	--	--	--	--	2.9	12	--
02/15/00	7.95	8.56	--	228	--	--	--	--	--	--	9.4	12	--
02/14/01	6.4	7.3	12	294	--	--	--	--	--	--	7.3	14	--
02/07/02	6.5	6.8	ND<10	233	--	--	--	--	--	--	3.4	13	--
02/13/03	5.6	--	ND>10	85	--	--	--	--	--	--	5	14	--
02/24/04	5.57	--	35	223	--	--	--	--	--	--	--	--	--
05/06/04	5.34	--	--	209	--	--	--	--	--	--	--	--	--
02/03/05	6.57	--	3.00	98	183.7	21.7	5.93	0.30	21.60	0.00	--	--	--
05/05/05	4.60	--	5	088	--	--	--	0.00	20.90	0.00	--	--	--
08/04/05	3.17	--	8	161	161	15.0	5.89	0.10	20.90	0.00	--	--	--
11/03/05	3.36	--	9	-013	240	15.5	6.05	0.00	20.90	0.00	--	--	--
02/02/06	4.45	3.72	5	089	187.2	15.6	6.09	0.00	20.90	0.00	--	--	--
05/04/06	4.69	--	7	225	0.13	68.8	3.33	0.10	21.00	0.00	--	--	--
MW-8													
08/22/95	--	--	--	--	--	--	--	--	--	--	--	--	--
05/19/99	0.04	0.10	2.1	13.1	--	--	--	--	--	--	ND	2.9	--
08/05/99	0.57	2.00	3.6	48.8	--	--	--	--	--	--	ND	7.6	--
11/24/99	4.87	5.21	17	523	--	--	--	--	--	--	ND	13	--
02/15/00	4.94	3.52	--	6	--	--	--	--	--	--	4.1	5	--
05/11/00	5.56	2.92	6.2	77	--	--	--	--	--	--	ND	1.2	--
08/09/00	2.45	2.44	7.5	52	--	--	--	--	--	--	ND	9.4	--
11/27/00	1.95	2.16	5.3	64	--	--	--	--	--	--	ND	11	--
02/14/01	4.1	3.2	20	62	--	--	--	--	--	--	ND	7.1	--
05/11/01	4.1	3.4	9.5	61	--	--	--	--	--	--	ND	11	--
08/09/01	5.5	4.8	10	55	--	--	--	--	--	--	<1.0	8.8	--
11/30/01	5.4	5.0	16	49	--	--	--	--	--	--	<0.20	16	--
02/07/02	2.5	3.0	13	57	--	--	--	--	--	--	0.54	6.5	--
05/10/02	1.3	--	12	81	--	--	--	--	--	--	<0.20	4.4	--
08/15/02	2.6	--	12	2	--	--	--	--	--	--	<0.89	8.2	--
11/14/02	1.6	--	20	170	--	--	--	--	--	--	<0.20	29	--

Table 4
Sample Parameters

Bulk Plant No. 0220
720 North Franklin Street
Fort Bragg, California

Date Sampled	Pre-Purge Dissolved Oxygen (mg/l)	Post Purge Dissolved Oxygen (mg/l)	Dissolved Carbon Dioxide (µg/l)	Oxidation-Reduction Potential	Conductivity (µS/cm)	Temp (°C)	pH	Head Space			Nitrate, NO ₃ (mg/l)	Sulfate, SO ₄ (mg/l)	Ferrous Iron, Fe (II+) (mg/l)
								Carbon Dioxide (%)	Oxygen (%)	Organic Vapor (ppm)			
02/13/03	1.5	--	11	-15	--	--	--	--	--	--	0.33	3.4	--
05/16/03	1.0	--	ND<10	60	--	--	--	--	--	--	<1.0	5.9	--
08/12/03	1.4	--	35	50	--	--	--	--	--	--	<1.0	5.7	--
02/24/04	1.24	--	95	1	--	--	--	--	--	--	--	--	--
05/06/04	5.02	--	--	-55	--	--	--	--	--	--	--	--	--
08/04/04	4.68	--	--	-83	--	--	--	--	--	--	--	--	--
11/10/04	2.08	--	--	--	--	--	--	--	--	--	--	--	--
02/03/05	2.28	--	76	96	665	14.6	5.49	0.30	21.60	2.30	--	--	--
05/05/05	0.79	--	34	-101	372	15.5	6.24	0.00	20.90	0.00	--	--	--
08/04/05	2.54	--	23	-30	354	15.8	6.47	0.00	20.90	50.10	--	--	--
11/03/05	1.67	--	7	004	269	15.0	5.87	0.00	20.90	0.00	--	--	--
02/02/06	4.39	4.11	13	036	210	13.7	6.65	0.00	20.90	0.00	--	--	--
05/04/06	0.77	--	6	026	0.30	66.7	4.14	0.20	21.30	32.90	--	--	--
MW-9													
08/22/95	--	--	--	--	--	--	--	--	--	--	--	--	--
05/19/99	0.82	0.84	--	43.9	--	--	--	--	--	--	--	--	--
08/05/99	10.01	2.15	--	--	--	--	--	--	--	--	--	--	--
02/15/00	8.01	6.36	--	209	--	--	--	--	--	--	--	--	--
08/09/00	6.11	4.69	6.2	221	--	--	--	--	--	--	--	--	--
02/24/04	4.14	--	50	164	--	--	--	--	--	--	--	--	--
05/06/04	3.92	--	--	146	--	--	--	--	--	--	--	--	--
02/03/05	5.21	--	9	32	190.6	17.9	5.86	2.00	21.10	0.00	--	--	--
05/05/05	4.13	--	9	-50	--	--	--	1.10	18.60	0.00	--	--	--
08/04/05	6.42	--	25	127	191	16.7	6.29	0.02	20.90	0.20	--	--	--
11/03/05	3.96	--	9	116	221	15.2	6.70	0.00	20.90	0.00	--	--	--
02/02/06	3.57	2.89	12	113	250	15.6	6.22	0.00	20.90	0.00	--	--	--
05/04/06	4.12	--	8	162	0.17	67.9	3.61	0.00	20.90	0.00	--	--	--
MW-10													
08/22/95	--	--	--	--	--	--	--	--	--	--	--	--	--
05/19/99	0.63	0.65	2.2	19.1	--	--	--	--	--	--	3.3	12	--
08/05/99	3.06	1.45	3.6	55.2	--	--	--	--	--	--	ND	7.9	--
02/15/00	6.28	8.14	--	225	--	--	--	--	--	--	8.2	14	--
08/09/00	2.82	3.53	6.4	106	--	--	--	--	--	--	ND	10	--
02/14/01	3.7	4.7	15	168	--	--	--	--	--	--	ND	12	--
08/09/01	3.4	4.4	12	154	--	--	--	--	--	--	<1.0	11	--
02/07/02	4.5	5.6	13	170	--	--	--	--	--	--	1.1	13	--
08/15/02	2.5	--	13	-15	--	--	--	--	--	--	<0.89	9.7	--
02/13/03	4.6	--	ND<10	81	--	--	--	--	--	--	2.2	17	--
08/12/03	2.1	--	35	151	--	--	--	--	--	--	<1.0	12	--
02/24/04	5.93	--	45	181	--	--	--	--	--	--	15	<0.20	--
05/06/04	5.13	--	--	179	--	--	--	--	--	--	--	--	--
08/04/04	0.00531	--	--	-40	--	--	--	--	--	--	<1.0	11	1.4
11/10/04	2.32	--	--	--	--	--	--	--	--	--	--	--	--
02/03/05	4.1	--	16	75	297	16.2	5.84	0.60	21.90	0.00	6	45	<0.20
05/05/05	5.23	--	6	45	--	--	--	0.10	20.90	0.00	--	--	--
08/04/05	1.53	--	20	41	283	17.8	5.90	0.20	20.90	0.00	<1.0	45	0.65
11/03/05	1.91	--	6	-025	275	16.3	6.06	0.00	20.90	0.00	--	--	--
02/02/06	5.06	2.74	6	108	361	14.4	6.13	0.00	20.90	0.00	9.4	21	--
05/04/06	6.02	--	6	197	0.22	68.8	3.44	0.10	21.10	0.00	--	--	--
MW-11													
08/22/95	--	--	--	--	--	--	--	--	--	--	--	--	--
05/19/99	0.22	0.20	1.9	66.7	--	--	--	--	--	--	3.9	11	--
08/05/99	1.16	2.08	3.3	46.3	--	--	--	--	--	--	ND	9.6	--
11/24/99	5.71	6.33	11	533	--	--	--	--	--	--	5	11	--
02/15/00	6.08	6.66	--	185	--	--	--	--	--	--	6.4	10	--
05/11/00	6.93	5.77	ND	173	--	--	--	--	--	--	ND	9.6	--
08/09/00	2.64	3.56	6.4	58	--	--	--	--	--	--	ND	8	--
11/27/00	3.14	3.51	6.7	89	--	--	--	--	--	--	ND	7.9	--
02/14/01	5.9	6.9	9.3	264	--	--	--	--	--	--	ND	10	--
05/11/01	5.5	6.7	9.0	258	--	--	--	--	--	--	0.504	12	--
08/09/01	3.9	5.3	11	268	--	--	--	--	--	--	<1.0	2.8	--
11/30/01	5.1	6.4	13	189	--	--	--	--	--	--	1.6	12	--
02/07/02	3.9	4.8	13	266	--	--	--	--	--	--	0.99	11	--
05/10/02	1.7	--	14	30	--	--	--	--	--	--	0.32	7.5	--
08/15/02	2.8	--	13	-31	--	--	--	--	--	--	<0.89	2.6	--

Table 4
Sample Parameters

Bulk Plant No. 0220
720 North Franklin Street
Fort Bragg, California

Date Sampled	Pre-Purge Dissolved Oxygen (mg/l)	Post Purge Dissolved Oxygen (mg/l)	Dissolved Carbon Dioxide (µg/l)	Oxidation-Reduction Potential	Conductivity (µS/cm)	Temp (°C)	pH	Head Space			Nitrate, NO ₃ (mg/l)	Sulfate, SO ₄ (mg/l)	Ferrous Iron, Fe (II+) (mg/l)
								Carbon Dioxide (%)	Oxygen (%)	Organic Vapor (ppm)			
11/14/02	1.1	--	22	126	--	--	--	--	--	--	<0.20	13	--
02/13/03	2.4	--	ND<10	61	--	--	--	--	--	--	1.9	14	--
05/16/03	3.8	--	ND<10	220	--	--	--	--	--	--	<1.0	98	--
08/12/03	1.9	--	36	56	--	--	--	--	--	--	<1.0	4.6	--
02/24/04	2.81	--	50	202	--	--	--	--	--	--	--	13	<0.20
05/06/04	6.67	--	--	46	--	--	--	--	--	--	--	--	--
08/04/04	5.76	--	--	-31	--	--	--	--	--	--	<1.0	5.2	2.5
11/10/04	1.64	--	--	--	--	--	--	--	--	--	--	--	--
02/03/05	7.13	--	5	38	308	18.1	5.86	0.10	22.10	0.00	6	42	<0.20
05/05/05	5.60	--	6	-002	244	15.9	6.40	0.00	20.90	0.00	--	--	--
08/04/05	1.50	--	17	10	247	16.4	6.07	0.10	20.90	0.00	<1.0	18	0.43
11/03/05	160	--	8	-052	267	15.6	6.10	0.00	20.90	0.00	--	--	--
02/02/06	3.15	2.38	8	104	274	15.4	6.06	0.00	20.90	0.00	8.5	19	--
05/04/06	6.22	--	3	150	0.21	56.6	3.69	6.22	21.30	0.00	--	--	--
MW-12													
05/19/99	0.35	0.28	--	11.3	--	--	--	--	--	--	--	--	--
08/05/99	6.80	5.41	1.0	24.8	--	--	--	--	--	--	9.1	29	--
02/15/00	8.20	8.57	--	239	--	--	--	--	--	--	9.3	25	--
08/09/00	7.19	6.58	ND	152	--	--	--	--	--	--	8.2	21	--
02/14/01	8.8	7.4	5.4	285	--	--	--	--	--	--	7	18	--
08/09/01	6.8	6.1	5.0	266	--	--	--	--	--	--	10	20	--
02/07/02	9	8.9	ND<10	244	--	--	--	--	--	--	2.7	13	--
08/15/02	1.9	--	15	52	--	--	--	--	--	--	8.8	19	--
08/12/03	1.20	--	26	283	--	--	--	--	--	--	8.8	21	--
02/24/04	6.13	--	30	187	--	--	--	--	--	--	--	19	<0.20
05/06/04	5.27	--	--	210	--	--	--	--	--	--	--	--	--
08/04/04	5.28	--	--	-61	--	--	--	--	--	--	8	19	<0.20
02/03/05	8.37	--	6.00	69	270	16.2	6.27	0.60	0.00	21.80	11	19	<0.20
5/5/2005	6.93	--	5	018	--	--	--	0.20	20.90	0.00	--	--	--
08/04/05	5.64	--	12	102	226	17.0	6.21	0.40	20.90	28.50	6.6	20	<0.20
11/03/05	5.49	--	7	-063	200	16.1	6.42	0.00	20.90	0.00	--	--	--
02/02/06	5.26	3.45	8	121	514	14.7	6.07	0.00	20.90	0.00	8.3	15	--
05/04/06	6.87	--	3	183	0.22	57.5	3.58	0.10	21.30	0.00	--	--	--

Table 5
Ozone Injection - System Operation Data
Bulk Terminal No. 0220
720 North Franklin St., Ft. Bragg, California

OZONE SPARGE SYSTEM															
Date	Notes	System Status (On/Off)	Hourmeter	Period	Cumulative	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	SP-10
		Arrival	Departure	Reading	Online	Pressure (psi)									
1/20/2005	a	Off	Off	—		—	—	—	—	—	—	—	—	—	—
2/11/2005		Off	Off	1208		—	—	—	—	—	—	—	—	—	—
3/18/2005		Off	On	1381	24.9%	173	—	—	—	—	—	—	—	—	—
4/12/2005	b	Off	On	3778	399.5%	2570	—	—	—	—	—	—	—	—	—
5/11/2005		Off	Off	3778	0.0%	2570	—	—	—	—	—	—	—	—	—
6/6/2005		Off	Off	3778	0.0%	2570	—	—	—	—	—	—	—	—	—
7/11/2005		Off	Off	3778	0.0%	2570	—	—	—	—	—	—	—	—	—
8/9/2005	c	Off	Off	3778	0.0%	2570	—	—	—	—	—	—	—	—	—
9/6/2005		Off	Off	3778	0.0%	2570	—	—	—	—	—	—	—	—	—
10/3/2005		Off	Off	3778	0.0%	2570	—	—	—	—	—	—	—	—	—
11/1/2005		Off	Off	3778	0.0%	2570	—	—	—	—	—	—	—	—	—
12/5/2005		Off	Off	3778	0.0%	2570	—	—	—	—	—	—	—	—	—
1/30/2006		Off	Off	3778	0.0%	2570	—	—	—	—	—	—	—	—	—
2/16/2006		Off	Off	—	—	—	—	—	—	—	—	—	—	—	—
3/8/2006		Off	Off	—	—	—	—	—	—	—	—	—	—	—	—
4/5/2006		Off	Off	—	—	—	—	—	—	—	—	—	—	—	—
5/3/2006		Off	Off	—	—	—	—	—	—	—	—	—	—	—	—
6/15/2006		Off	Off	—	—	—	—	—	—	—	—	—	—	—	—
Sparge time per cycle (min)										8	8	8	8	0	8
										8	8	8	8	0	8

OZONE SPARGE SYSTEM															
Date	Notes	System Status (On/Off)	Hourmeter	Period	Cumulative	SP-11	SP-12	SP-13	SP-14	SP-15	SP-16	SP-17	SP-18	SP-19	SP-20
		Arrival	Departure	Reading	Online	Pressure (psi)									
1/20/2005	a	Off	Off	—		—	—	—	—	—	—	—	—	—	—
2/17/2005		Off	Off	1208		—	—	—	—	—	—	—	—	—	—
3/18/2005		Off	On	1381	24.9%	173	—	—	—	—	—	—	—	—	—
4/12/2005	b	Off	On	3778	399.3%	2570	—	—	—	—	—	—	—	—	—
5/17/2005		Off	Off	3778	0.0%	2570	—	—	—	—	—	—	—	—	—
6/6/2005		Off	Off	3778	0.0%	2570	—	—	—	—	—	—	—	—	—
7/11/2005		Off	Off	3778	0.0%	2570	—	—	—	—	—	—	—	—	—
8/9/2005	c	Off	Off	3778	0.0%	2570	—	—	—	—	—	—	—	—	—
9/6/2005		Off	Off	3778	0.0%	2570	—	—	—	—	—	—	—	—	—
10/3/2005		Off	Off	3778	0.0%	2570	—	—	—	—	—	—	—	—	—
11/1/2005		Off	Off	3778	0.0%	2570	—	—	—	—	—	—	—	—	—
12/5/2005	d	Off	Off	3778	0.0%	2570	—	—	—	—	—	—	—	—	—
1/30/2006		Off	Off	—	—	—	—	—	—	—	—	—	—	—	—
2/16/2006		Off	Off	—	—	—	—	—	—	—	—	—	—	—	—
3/8/2006		Off	Off	—	—	—	—	—	—	—	—	—	—	—	—
4/5/2006		Off	Off	—	—	—	—	—	—	—	—	—	—	—	—
5/3/2006		Off	Off	—	—	—	—	—	—	—	—	—	—	—	—
6/15/2006		Off	Off	—	—	—	—	—	—	—	—	—	—	—	—
Sparge time per cycle (min)										8	8	8	8	0	8
										8	8	8	8	0	8

Table 5
Ozone Injection - System Operation Data
Bulk Terminal No. 0220
720 North Franklin St., Ft. Bragg, California

System 1	
Total Hours Operational:	2570
Total Pounds Ozone Injected:	23
Period Hours Operational:	0
Period Percent Operational:	0
Period Pounds Ozone Injected:	0

Definitions:	psi Pounds per square inch
scfm	Standard cubic feet per minute
-	Data not available
NA	Not applicable
Notes:	<p>a SECOR began reporting, SHN continues O&M</p> <p>b Unknown hourmeter anomaly</p> <p>c Ozone generator failed upon startup. System shutdown</p> <p>d SECOR began O&M</p>

Table 6
Ozone Injection - Groundwater Monitoring Data
Bulk Terminal No. 0220
720 North Franklin St, Ft Bragg, California

Date	Note	Monitoring Well: MW-1						Monitoring Well: MW-4						Monitoring Well: MW-3													
		ORP (mV)	DO (mg/l)	TPHg (ug/L)	Benzene (ug/L)	Ethylbenzene (ug/L)	Xylenes (total) (ug/L)	MIBE (ug/L)	ORP (mV)	DO (mg/l)	TPHg (ug/L)	Benzene (ug/L)	Ethylbenzene (ug/L)	Xylenes (total) (ug/L)	MIBE (ug/L)	ORP (mV)	DO (mg/l)	TPHg (ug/L)	Benzene (ug/L)	Ethylbenzene (ug/L)	Xylenes (total) (ug/L)	MIBE (ug/L)					
2/17/2005	a, b	-	0.67	120	1,300	<0.5	<1.0	<0.5	-	0.66	4,000	17,000	<2.0	<2.0	<2.0	-	0.64	2,100	31,000	<0.5	<0.5	<1.0	<0.5				
3/18/2005	b	112	1.8	220	1,600	<0.5	<0.5	<0.5	4.3	1.6	8,000	28,000	<2.0	<2.0	<2.0	-	26	6,60	9,100	<0.5	<0.5	<1.0	<0.5				
4/12/2005	95	4	77	460	<0.5	<0.5	<0.5	<1.0	<0.5	-13	9	950	5,100	<0.5	<0.5	<1.0	<0.5	46	4	340	2,100	<0.5	<0.5	<1.0	<0.5		
5/17/2005	b	120	6	<50	110	<0.5	<0.5	<0.5	4.4	3	2,600	9,400	<5.0	<5.0	<5.0	<10.0	<5.0	<10.0	<5.0	<12	2	410	1,300	<0.5	<0.5	<1.0	<0.5
6/6/2005	b, c	92	5	<50	360	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	-26	-	200	450	<5.0	<5.0	<5.0	<5.0	<5	-	160	630	<0.5	<0.5	<1.0	<0.5
7/11/2005	b, c	56	7	52	1,200	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<55	5	15,000	94,000	<0.5	<0.5	<1.0	<0.5	<2.0	2	130	810	<0.5	<0.5	<1.0	<0.5
8/9/2005	64	3	<50	94	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<55	2	1,300	140,000	<2.0	<2.0	<2.0	<2.0	<2.0	46	2	160	650	<0.5	<0.5	<1.0	<0.5
9/6/2005	141	2	<50	350	<0.5	<0.5	<0.5	<1.0	<0.5	<52	1,00	1,400	140,000	<2.0	<2.0	<2.0	<2.0	<2.0	95	2,00	340	9,000	<0.5	<0.5	<1.0	<0.5	
10/3/2005	16	2	98	650	<0.5	<0.5	<0.5	<1.0	<0.5	50	1,00	1,100	8,600	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	2	2,00	180	860	<0.5	<0.5	<1.0	<0.5
11/1/2005	-	-	<50	55	<0.5	<0.5	<0.5	<1.0	<0.5	-	-	110	140	<0.5	<0.5	<1.0	<0.5	<1.0	-	-	110	720	<0.5	<0.5	<1.0	<0.5	
12/5/2005	-	-	<50	340	<0.5	<0.5	<0.5	<1.0	<0.5	-	-	370	930	<0.5	<0.5	<1.0	<0.5	<1.0	-	-	50	1,800	<0.5	<0.5	<1.0	<0.5	
1/30/2006	d	-	-	<50	-	<0.5	<0.5	<0.5	<1.0	<0.5	-	-	650	-	<0.5	<0.5	<1.0	<0.5	<1.0	-	-	180	-	<0.5	<0.5	<1.0	<0.5
2/16/2006	-	-	<50	63	<0.5	<0.5	<0.5	<1.0	<0.5	<55	-	750	1,100	<0.5	<0.5	<1.0	<0.5	<1.0	-	-	160	1,900	<0.5	<0.5	<1.0	<0.5	
3/8/2006	-	-	<50	110	<0.5	<0.5	<0.5	<1.0	<0.5	-	-	300	<0.5	<50	<0.5	<1.0	<0.5	<1.0	<0.5	-	-	410	970	<0.5	<0.5	<1.0	<0.5
4/5/2006	-	-	<50	55	<0.5	<0.5	<0.5	<1.0	<0.5	<55	-	-	930	1,000	<0.5	<0.5	<1.0	<0.5	<1.0	-	-	130	780	<0.5	<0.5	<1.0	<0.5
5/3/2006	-	-	<50	<50	<0.5	<0.5	<0.5	<1.0	<0.5	-	-	210	410	<0.5	<0.5	<1.0	<0.5	<1.0	-	-	76	1,900	<0.5	<0.5	<1.0	<0.5	
6/15/2006	-	-	<50	<50	<0.5	<0.5	<0.5	<1.0	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Definitions:

ORP = Oxidation Reduction Potential
 DO = Dissolved Oxygen
 TPHg = Total petroleum hydrocarbons as gasoline
 MIBE = Methyl tert-butyl ether
 ug/L = Micrograms per liter
 mV = Millivolts
 mg/L = Milligrams per liter
 - = Not measured
 ppm = Parts Per Million

Notes: *a* = SECOR began reporting. SHN continues O&M

b = Reporting limits were raised due to high level of analyte present in sample
c = pH > 2
d = SECOR began O&M

S E C O R

ATTACHMENT 1
RWQCB-NCR MRP NO. R1-2003-0107
Quarterly Monitoring and Summary Report
Bulk Plant No. 0220
720 North Franklin Street
Fort Bragg, California

MRP Requirements
 MRP No. R1-2003-0107
 Sample requirements
 ConocoPhillips Bulk Plant No. 0220
 Fort Bragg, California

Well ID	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
MW-1	TPHg, TPHd, BTEX, MtBE		TPHg, TPHd, BTEX, MtBE	
MW-2	TPHg, TPHd, BTEX, MtBE		TPHg, TPHd, BTEX, MtBE	
MW-3	TPHg, TPHd, BTEX, MtBE		TPHg, TPHd, BTEX, MtBE	
MW-4	TPHg, TPHd, BTEX, MtBE, Additional	TPHg, TPHd, BTEX, MtBE	TPHg, TPHd, BTEX, MtBE, Additional	TPHg, TPHd, BTEX, MtBE
MW-5	TPHg, TPHd, BTEX, MtBE		TPHg, TPHd, BTEX, MtBE	
MW-6	TPHg, TPHd, BTEX, MtBE			
MW-7	TPHg, TPHd, BTEX, MtBE			
MW-8	TPHg, TPHd, BTEX, MtBE	TPHg, TPHd	TPHg, TPHd, BTEX, MtBE	TPHg, TPHd
MW-9	TPHg, TPHd, BTEX, MtBE			
MW-10	TPHg, TPHd, BTEX, MtBE, Additional		TPHg, TPHd, BTEX, MtBE, Additional	
MW-11	TPHg, TPHd, BTEX, MtBE, Additional	TPHg, TPHd	TPHg, TPHd, BTEX, MtBE, Additional	TPHg, TPHd
MW-12	TPHg, TPHd, BTEX, MtBE, Additional		TPHg, TPHd, BTEX, MtBE, Additional	

Notes:
 Additional = dissolved methane, dissolved iron, dissolved manganese, nitrate, sulfate

S E C O R

**ATTACHMENT 2
TRC'S QUARTERLY MONITORING REPORT
APRIL THROUGH JUNE 2006**

Quarterly Monitoring and Summary Report
Bulk Plant No. 0220
720 North Franklin Street
Fort Bragg, California

S E C O R

ATTACHMENT 3
FIELD DATA SHEETS, CERTIFIED LABORATORY
ANALYTICAL REPORT AND CHAIN-OF-CUSTODY
DOCUMENTATION

Quarterly Monitoring and Summary Report
Bulk Plant No. 0220
720 North Franklin Street
Fort Bragg, California

FIELD SERVICES REQUEST

SITE INFORMATION**Identification**

Project #: 77CP.60927.07.0003
 Station ID #: 0920
 Site Address: 720 North Franklin Street
 Fort Bragg, CA
 Lab: STL
 County: Mendocino
 Project Manager: Thomas Potter
 Requester: Erik Lawson
 Client: ConocoPhillips
 Client P.O.C: Thomas Kosel
 Date of Request:

Project Type

- | | |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | Operation & Maintenance |
| <input checked="" type="checkbox"/> | Sampling |
| <input type="checkbox"/> | 1st Time Visit |
| <input type="checkbox"/> | Quarterly |
| | 1st 2nd 3rd 4th |
| <input checked="" type="checkbox"/> | Monthly |
| <input type="checkbox"/> | Semi-Monthly |
| <input type="checkbox"/> | Weekly |
| <input type="checkbox"/> | One Time Event |
| <input type="checkbox"/> | Other: |
| Field Date: _____ | |

Check Appropriate Category

- | | |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | Budget Site Visit |
| <input type="checkbox"/> | Out of Budget Site Visit |

Budget Hours:

Actual Hours:

Mob/de Mob:

Site Safety Concerns

#0220 Ozone Injection Monitoring

- 1) After arriving on-site, review work order, HASP, and JSA within HASP on Ozone Gas Hazards.
- 2) Prior to conducting field work, insert ozone sensitive paper into badge and attach to shirt or coat.
Make sure ozone meter has been warmed up. Warm up times can be greater than 1 hour.
Refer to second page of work order and fill out requested information.
- 3) Monitor and document ozone readings outside of ozone compound and ozone panel.
Since ozone is heavier than air, be sure to monitor for ozone at low points in compound and panel.
If positive ozone readings are encountered, call project manager (916) 861-0400 x288 to discuss possible solutions.
- 4) If no positive ozone readings are found, inspect fittings and tubing connection for signs of wear or damage.
Use a Tedlar bag to collect vapor sample from sample port on double containment piping for ozone injection line.
Due to meter sensitivity, push vapor out of Tedlar bag and carefully check for ozone in vapor sample.
DO NOT check ozone concentration directly from Tedlar bag, high ozone concentrations can damage meter.
- 5) Using meter, Monitor for Ozone, O³, along the piping runs, at top of each injection well lid, and within each well box.
Set-up traffic delineators to define work area around each injection well prior to collecting ozone readings.
If positive ozone readings are encountered, call project manager to discuss possible solutions.
- 6) Sample Monitoring Wells . Analyze for TPHg, BTEX, and MtBE by EPA method 8260.
- 7) Before leaving the site check your Ozone badge and note badge color on second page of work order.
- 8) Call into the Sacramento office (916) 861-0400 before you leave the site.
- 9) Forward field notes and equipment rental forms to Erik Lawson in Sacramento.

EQUIPMENT NEEDED:

Site Safety Plan

O3 Meter and Ozone Badge

1/2", 9/16", and 15/16" sockets, pliers, and other misc. tools

Traffic Delineators

Nitrile gloves, COC's, drum labels, etc.

Completed By:

Date:

JOB NAME: Ft Bragg Bulk Terminal

JOB NUMBER: 77CP.60927.07.0003

SITE ADDRESS: 720 North Franklin Street, Fort Bragg, CA

DATE: 4/5/06

MONITORED BY: Brian Schaeffer

	On Arrival	On Departure	Hourmeter Reading		
System Status	(ON) OFF	(ON) OFF	2837		
WELL I.D.	Valve Position (%)	Pressure (in.w.c.)	Flow (actm)	Prog. Runtime (min)	Field Notes or Comments
BV-1	0,8	14.2	ACM 231 @ 84.9	1000	
BV-2	0,8	41.7	ACM 231 @ 84.9	1000	
BV-3	0,8	34.5	ACM 231 @ 84.9	1000	
BV-4	0,8	17.7	ACM 231 @ 84.9	1000	
BV-5	0,8	12.5	ACM 231 @ 83.2	1000	
BV-6	0,8	12.5	ACM 231 @ 83.2	1000	
BV-7	0,8	12.5	ACM 231 @ 83.2	1000	
BV-8	0,8	10.9	ACM 231 @ 83.2	1000	

Power pole meter - 26040 kwh

JOB NAME: Ft Bragg Bulk Terminal

JOB NUMBER: 77CP.60927.07.0003

Work Conducted By: Brian Schorrman

DATE: 4/5/16

SITE VISITATION REPORT

Arrival Time: 1408

Departure Time: 1555

WASTE AND DRUM INVENTORY

SOIL	CARBON	TOTAL OPEN TOP
<u>7</u>	<u> </u>	<u> </u>
WATER	EMPTY	TOTAL BUNG TOP
<u>80 gal</u>	<u> </u>	<u> </u>
Estimated Water Volume	Other Waste:	

HEALTH AND SAFETY ASSESSMENT

*Slips Trips Falls**Bulk Plant with above ground tanks**Fuel truck & Flue bed traffic**Be aware of surroundings & wear safe*

OZONE MONITORING NOTES

Hour Meter: System Pressure:

Wind Direction: N System Flow Rate:

Estimated Wind Speed: 5

Estimated Air Temp: 65

Ozone meter Brand: Ozone meter sensitivity range:

Ozone Badge on: Yes No

Time Badge Put on:

Time Badge Take Off: Circle Badge Color: White Tan Brown

Estimate Temp within Ozone Panel or containment shed:

*Ozone system down ozone generator removed.**Normal OEM air flow vent system**Spent wells ml-1 ml-4 ml-5*

JOB NAME: Ft Bragg Bulk Terminal

JOB NUMBER: 77CP.60927.07.0003

Work Conducted By: Brian Schaeffer

DATE: 3/1/16

DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

4/5/06

JOB NAME: Ft Bragg Bulk Terminal

JOB NUMBER: 77CP.60927.07.0003

SITE ADDRESS: 720 North Franklin Street, Fort Bragg, CA

DATE: 4/15/06

MONITORED BY: Brian Scherzer

WELL	Vapor Readings			Field Notes or Comments
	I.D.	Ozone (ppm)	Odors	
Compound and System Readings				
Outside Compound				
Inside Compound				
Inside Shed or Panel				
Secondary Containment				
Well Box Ozone Readings				
SP-1				
SP-2				
SP-3				
SP-4				
SP-5				
SP-6				
SP-7				
SP-8				
SP-9				
SP-10				
SP-11				
SP-12				
SP-13				
SP-14				
SP-15				
SP-16				
SP-17				
SP-18				
SP-19				
SP-20				

ConocoPhillips Chain Of Custody Record

ConocoPhillips Site Manager:
1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

INVOICE REMITTANCE ADDRESS:

CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA, 92704

SAMPING COMPANY:
SECCOR International, Inc.

ADDRESS:
3017 Kilgore Rd., Suite 100

PROJECT CONTACT (Handcopy or PDF Report to):

Erik Lawson

TELEPHONE: 916-861-0400 ex. 280 FAX: 916-861-0430

E-MAIL: elawson@seccor.com

SAMPLER NAME(S) (Print):
Erik Lawson

CONSULTANT PROJECT NUMBER:
77CP-60927-07

Valid Value ID:
Ft Bragg Bulk Plant # 0220

CONOCOPHILLIPS SITE NUMBER:
GLOBAL ID NO.:
T0604593174

TURNDAROUND TIME (CALENDAR DAYS):
 14 DAYS 7 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

EDD DELIVERABLE TO (RP or Designee):
Erik Lawson

PHONE NO.:
916-861-0400

E-MAIL:
elawson@seccor.co

CHECK BOX IF EDD IS NEEDED

SPECIAL INSTRUCTIONS OR NOTES:
8260B - TPHg / BTEX / 8 Oxygenates

* Field Point name only required if different from Sample ID
LOG Sample Identification/Field Point

USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	MATRIX TIME	NO. OF CONT.
	MW - 1	4/26/03	1435	X
	MW - 4	4/26/03	1453	X
	MW - 8	4/26/03	1505	X

Lead Total STLC TCCLP

8015m - TPHd Extractable

8260B - TPHg/BTEX/MtBE

8260B - TPHg / BTEX / 8

Oxygenates

8260B - TPHg / BTEX / 8

oxygentes + methanol (8015M)

8260B - Full Scan VOCs (does not

include oxygenates)

8270C - Semi-Volatiles

8015M / 8021B - TPHg/BTEX/MtBE

Lead Total STLC TCCLP

8015m - TPHd Extractable

8260B - TPHg/BTEX/MtBE

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8260B - TPHg / BTEX / 8

FIELD SERVICES REQUEST

SITE INFORMATION

Identification

Project #: 77CP.60927.07.0003
 Station ID #: 0920
 Site Address: 720 North Franklin Street
 Fort Bragg, CA
 Lab: STL
 County: Mendocino
 Project Manager: Thomas Potter
 Requester: Erik Lawson
 Client: ConocoPhillips
 Client P.O.C: Thomas Kosel
 Date of Request:

Project Type

<input checked="" type="checkbox"/>	Operation & Maintenance
<input checked="" type="checkbox"/>	Sampling
<input type="checkbox"/>	1st Time Visit
<input type="checkbox"/>	Quarterly
	1st 2nd 3rd 4th
<input checked="" type="checkbox"/>	Monthly
<input type="checkbox"/>	Semi-Monthly
<input type="checkbox"/>	Weekly
<input type="checkbox"/>	One Time Event
<input type="checkbox"/>	Other:
	Field Date:

Check Appropriate Category

<input checked="" type="checkbox"/>	Budget Site Visit
<input type="checkbox"/>	Out of Budget Site Visit

Budget Hours:

Actual Hours:

Mob/de Mob:

Site Safety Concerns

#0220 Ozone Injection Monitoring

- 1) After arriving on-site, review work order, HASP, and JSA within HASP on Ozone Gas Hazards.
- 2) Prior to conducting field work, insert ozone sensitive paper into badge and attach to shirt or coat.
Make sure ozone meter has been warmed up. Warm up times can be greater than 1 hour.
Refer to second page of work order and fill out requested information.
- 3) Monitor and document ozone readings outside of ozone compound and ozone panel.
Since ozone is heavier than air, be sure to monitor for ozone at low points in compound and panel.
If positive ozone readings are encountered, call project manager (916) 861-0400 x288 to discuss possible solutions.
- 4) If no positive ozone readings are found, inspect fittings and tubing connection for signs of wear or damage.
Use a Tedlar bag to collect vapor sample from sample port on double containment piping for ozone injection line.
Due to meter sensitivity, push vapor out of Tedlar bag and carefully check for ozone in vapor sample.
DO NOT check ozone concentration directly from Tedlar bag, high ozone concentrations can damage meter.
- 5) Using meter, Monitor for Ozone, O³, along the piping runs, at top of each injection well lid, and within each well box.
Set-up traffic delineators to define work area around each injection well prior to collecting ozone readings.
If positive ozone readings are encountered, call project manager to discuss possible solutions.
- 6) Sample Monitoring Wells . Analyze for TPHg, BTEX, and MtBE by EPA method 8260.
- 7) Before leaving the site check your Ozone badge and note badge color on second page of work order.
- 8) Call into the Sacramento office (916) 861-0400 before you leave the site.
- 9) Forward field notes and equipment rental forms to Erik Lawson in Sacramento.

EQUIPMENT NEEDED:

Site Safety Plan

O3 Meter and Ozone Badge

1/2", 9/16", and 15/16" sockets, pliers, and other misc. tools

Traffic Delineators

Nitrile gloves, COC's, drum labels, etc.

Completed By:

Date:

JOB NAME: Ft Bragg Bulk Terminal

JOB NUMBER: 77CP.60927.07.0003

Work Conducted By: Brian Schoneman

DATE: 6/15/06

DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

Collected GW samples from MW-1 MW-4 MW-8

measured Flow and Pressure at the Bio Vent manifold

JOB NAME: Ft Bragg Bulk Terminal

JOB NUMBER: 77CP.60927.07.0003

SITE ADDRESS: 720 North Franklin Street, Fort Bragg, CA

DATE: 6/15/06

MONITORED BY: Brian Schenck

System Status	On Arrival <input checked="" type="radio"/> ON <input type="radio"/> OFF	On Departure <input checked="" type="radio"/> ON <input type="radio"/> OFF	Hourmeter Reading		
WELL I.D.	Valve Position (%)	Pressure (in.w.c.)	Flow (acfm)	Prog Runtime (min)	Field Notes or Comments
BV-1	<input checked="" type="radio"/>	2.0	26.05		
BV-2	<input checked="" type="radio"/>	2.0	17.30		
BV-3	<input checked="" type="radio"/>	1.9	36.14		
BV-4	<input checked="" type="radio"/>	1.9	29.69		
BV-5	<input checked="" type="radio"/>	1.9	30.60		
BV-6	X	1.8	15.26		
BV-7	J	2.0	18.53		
BV-8	J	2.0	19.53		

KWH meter - 26721

STL-San Francisco

ConocoPhillips Chain Of Custody Record

FIELD SERVICES REQUEST**SITE INFORMATION****Identification**

Project #: 77CP.60927.07.0003
 Station ID #: 0920
 Site Address: 720 North Franklin Street
 Fort Bragg, CA
 Lab: STL
 County: Mendocino
 Project Manager: Thomas Potter
 Requester: Erik Lawson
 Client: ConocoPhillips
 Client P.O.C.: Thomas Kosel
 Date of Request:

Project Type

<input checked="" type="checkbox"/>	Operation & Maintenance
<input checked="" type="checkbox"/>	Sampling
<input type="checkbox"/>	1st Time Visit
<input type="checkbox"/>	Quarterly
	1st 2nd 3rd 4th
<input checked="" type="checkbox"/>	Monthly
<input type="checkbox"/>	Semi-Monthly
<input type="checkbox"/>	Weekly
<input type="checkbox"/>	One Time Event
<input type="checkbox"/>	Other:
Field Date:	

Check Appropriate Category

Budget Site Visit
 Out of Budget Site Visit

Budget Hours:

Actual Hours:

Mob/de Mob:

Site Safety Concerns

#0220 Ozone Injection Monitoring

- 1) After arriving on-site, review work order, HASP, and JSA within HASP on Ozone Gas Hazards.
- 2) Prior to conducting field work, insert ozone sensitive paper into badge and attach to shirt or coat.
Make sure ozone meter has been warmed up. Warm up times can be greater than 1 hour.
Refer to second page of work order and fill out requested information.
- 3) Monitor and document ozone readings outside of ozone compound and ozone panel.
Since ozone is heavier than air, be sure to monitor for ozone at low points in compound and panel.
If positive ozone readings are encountered, call project manager (916) 861-0400 x288 to discuss possible solutions.
- 4) If no positive ozone readings are found, inspect fittings and tubing connection for signs of wear or damage.
Use a tedlar bag to collect vapor sample from sample port on double containment piping for ozone injection line.
Due to meter sensitivity, push vapor out of tedlar bag and carefully check for ozone in vapor sample.
DO NOT check ozone concentration directly from tedlar bag, high ozone concentrations can damage meter.
- 5) Using meter, Monitor for Ozone, O³, along the piping runs, at top of each injection well lid, and within each well box.
Set-up traffic delineators to define work area around each injection well prior to collecting ozone readings.
If positive ozone readings are encountered, call project manager to discuss possible solutions.
- 6) Sample Monitoring Wells . Analyze for TPHg, BTEX, and MtBE by EPA method 8260.
- 7) Before leaving the site check your Ozone badge and note badge color on second page of work order.
- 8) Call into the Sacramento office (916) 861-0400 before you leave the site.
- 9) **Forward field notes and equipment rental forms to Erik lawson in Sacramento.**

EQUIPMENT NEEDED:

Site Safety Plan

O3 Meter and Ozone Badge

1/2", 9/16", and 15/16" sockets, pliers, and other misc. tools

Traffic Delineators

Nitrile gloves, COC's, drum labels, etc.

Completed By:

Date:

SITE VISITATION REPORT

Project: CP-0920

Date: 5/3/06

Project No: 770860927070003

Name of Technicians(s) Brian Schermer

Rate Sch/Bill Code:

Arrival Time: 0745

Departure Time: 0930

Did you call in? Yes

Weather Notations:



CLOUDY

RAIN SNOW

Who did you call?

Tomlinson

Temperature: 50 F

Power Pole KWH meter 25062 hours
 System Hours 8502
 Blower Amps 10.81/mo

Total Flow 147.3 ACFM @ 76 °F @ 4.0" H₂O

SP-1	22.0 ACFM	@ 73.9 °F	@ 2.3" H ₂ O
SP-2	12.9 ACFM	@ 72.5 °F	@ 2.0" H ₂ O
SP-3	34.0 ACFM	@ 74.4 °F	@ 2.9" H ₂ O
SP-4	28.47 ACFM	@ 74.4 °F	@ 2.6" H ₂ O
SP-5	25.28 ACFM	@ 74.2 °F	@ 2.3" H ₂ O
SP-6	11.40 ACFM	@ 71.7 °F	@ 2.1" H ₂ O
SP-7	11.27 ACFM	@ 70.9 °F	@ 2.4" H ₂ O
SP-8	17.00 ACFM	@ 71.1 °F	@ 2.1" H ₂ O

Sampled nw-1 nw-4 nw-8

STL-San Francisco

ConocoPhillips Chain Of Custody Record

ConocoPhillips Site Manager:
INVOICE REMITTANCE ADDRESS:

1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

SECOR International, Inc.

ADDRESS:

3017 Kilgore Rd., Suite 100

PROJECT CONTRACT (Hardcopy or PDF Report to):
Valid Value ID:

SECOR International, Inc.

Attn: Dee Hutchinson

3611 South Harbor, Suite 200
Santa Ana, CA, 92704

WNO.0927

TELEPHONE: 916-861-0400 ex. 280 FAX: 916-861-0430

E-MAIL: elawson@secor.com

SAMPLER NAME(S) (Print): CONSULTANT PROJECT NUMBER

Erik Lawson 77TCP.60927.07

CONOCOPHILLIPS SITE NUMBER

Ft Bragg Bulk Plant # 0220

SITE ADDRESS (Street and City):

720 N. Franklin St, Ft. Bragg, CA

EDF DELIVERABLE TO (PP or Designee):

Erik Lawson

PHONE NO.: 916-861-0400

E-MAIL: elawson@secor.co

GLOBAL ID NO.: T0604593174

TURNAROUND TIME (CALENDAR DAYS):

14 DAYS 7 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES:

CHECK BOX IF EDD IS NEEDED

8260B - TPHg / BTEX / 8 Oxygenates

* Field Point name only required if different from Sample ID

LAB USE ONLY

REQUESTED ANALYSES

8015m - TPHd Extractable

8260B - TPHg/BTEX/MtBE

8260B - TPHg / BTEX / 8 Oxygenates

8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)

8260B - Full Scan VOCs (does not include oxygenates)

8270C - Semi-Volatiles

8015M / 8021B - TPHg/BTEX/MtBE

Lead Total STLC CLCP

TEMPERATURE ON RECEIPT C°

FIELD NOTES:
Container/Preservative
or PID Readings
or Laboratory Notes

Reinquested by: (Signature)
J. M. Lawson

Received by (Signature)

Retimquested by: (Signature)
J. M. Lawson

Received by (Signature)

Date: 5-3-2000 Time: 13:35

Reinquested by: (Signature)

Received by (Signature)

Date: Time:

ConocoPhillips Work Order Number
0927SEC009

DATE: 5/3/06

ConocoPhillips Cost Object

PAGE: 1 of 1

SEVERN
TRENT

STL

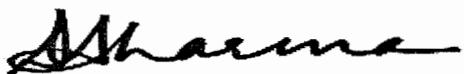
ANALYTICAL REPORT

Job Number: 720-3034-1

Job Description: Conoco Phillips # 0220, Fort Bragg

For:
SECOR International, Inc.
3017 Kilgore Road
Suite 100
Rancho Cordova, CA 95670

Attention: Mr. Thomas M Potter



Dimple Sharma
Project Manager I
dsharma@stl-inc.com
04/21/2006

Project Manager: Dimple Sharma

METHOD SUMMARY

Client: SECOR International, Inc.

Job Number: 720-3034-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS Purge-and-Trap	STL-SF STL-SF	SW846 8260B SW846 5030B	
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	STL-SF	SW846 8015B	
Organic Compounds in Water by Microextraction	STL-SF		SW846 3511

LAB REFERENCES:

STL-SF = STL-San Francisco

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: SECOR International, Inc.

Job Number: 720-3034-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-3034-1	MW-1	Water	04/05/2006 1435	04/06/2006 1725
720-3034-2	MW-4	Water	04/05/2006 1455	04/06/2006 1725
720-3034-3	MW-8	Water	04/05/2006 1505	04/06/2006 1725

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-3034-1

Client Sample ID: MW-1

Lab Sample ID: 720-3034-1

Date Sampled: 04/05/2006 1435

Client Matrix: Water

Date Received: 04/06/2006 1725

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-7802	Instrument ID:	Varian 3900C
Preparation:	5030B			Lab File ID:	c:\saturnws\data\200604\04
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	04/14/2006 1804			Final Weight/Volume:	10 mL
Date Prepared:	04/14/2006 1804				

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Surrogate	%Rec		Acceptance Limits
Toluene-d8	97		77 - 121
1,2-Dichloroethane-d4	115		73 - 130

Method:	8260B	Analysis Batch:	720-7934	Instrument ID:	Saturn 3900B
Preparation:	5030B			Lab File ID:	c:\saturnws\data\200604\04
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	04/19/2006 1354			Final Weight/Volume:	10 mL
Date Prepared:	04/19/2006 1354				

Analyte	Result (ug/L)	Qualifier	RL
Gasoline Range Organics (GRO)-C6-C12	ND		50

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-3034-1

Client Sample ID: MW-4

Lab Sample ID: 720-3034-2

Date Sampled: 04/05/2006 1455

Client Matrix: Water

Date Received: 04/06/2006 1725

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-7802	Instrument ID:	Varian 3900C
Preparation:	5030B			Lab File ID:	c:\saturnws\data\200604\04
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	04/14/2006 1615			Final Weight/Volume:	10 mL
Date Prepared:	04/14/2006 1615				

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	300		50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	98		77 - 121
1,2-Dichloroethane-d4	115		73 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-3034-1

Client Sample ID: MW-8

Lab Sample ID: 720-3034-3

Date Sampled: 04/05/2006 1505

Client Matrix: Water

Date Received: 04/06/2006 1725

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-7802	Instrument ID:	Varian 3900C
Preparation:	5030B			Lab File ID:	c:\saturnws\data\200604\04
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	04/14/2006 1643			Final Weight/Volume:	10 mL
Date Prepared:	04/14/2006 1643				

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	410		50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	99		77 - 121
1,2-Dichloroethane-d4	117		73 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-3034-1

Client Sample ID: MW-1

Lab Sample ID: 720-3034-1

Date Sampled: 04/05/2006 1435

Client Matrix: Water

Date Received: 04/06/2006 1725

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-7711	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-7467	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35 mL
Date Analyzed:	04/10/2006 1634			Final Weight/Volume:	2 mL
Date Prepared:	04/10/2006 0552			Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	110		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	100		60 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-3034-1

Client Sample ID: MW-4

Lab Sample ID: 720-3034-2

Date Sampled: 04/05/2006 1455

Client Matrix: Water

Date Received: 04/06/2006 1725

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-7711	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-7467	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35 mL
Date Analyzed:	04/10/2006 1701			Final Weight/Volume:	2 mL
Date Prepared:	04/10/2006 0552			Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	97		60 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-3034-1

Client Sample ID: MW-8

Lab Sample ID: 720-3034-3

Date Sampled: 04/05/2006 1505

Client Matrix: Water

Date Received: 04/06/2006 1725

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-7711	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-7467	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35 mL
Date Analyzed:	04/10/2006 1728			Final Weight/Volume:	2 mL
Date Prepared:	04/10/2006 0552			Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	970		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	104		60 - 130

DATA REPORTING QUALIFIERS

<u>Lab Section</u>	<u>Qualifier</u>	<u>Description</u>
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Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-3034-1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC/MS VOA				
Analysis Batch:720-7802				
LCS 720-7802/18	Lab Control Spike	Water	8260B	
LCSD 720-7802/17	Lab Control Spike Duplicate	Water	8260B	
MB 720-7802/19	Method Blank	Water	8260B	
720-3034-1	MW-1	Water	8260B	
720-3034-2	MW-4	Water	8260B	
720-3034-3	MW-8	Water	8260B	
720-3037-A-3 MS	Matrix Spike	Water	8260B	
720-3037-A-3 MSD	Matrix Spike Duplicate	Water	8260B	
Analysis Batch:720-7934				
LCS 720-7934/15	Lab Control Spike	Water	8260B	
LCSD 720-7934/14	Lab Control Spike Duplicate	Water	8260B	
MB 720-7934/16	Method Blank	Water	8260B	
720-3034-1	MW-1	Water	8260B	
720-3107-A-4 MS	Matrix Spike	Water	8260B	
720-3107-A-4 MSD	Matrix Spike Duplicate	Water	8260B	
GC Semi VOA				
Prep Batch: 720-7467				
LCS 720-7467/2-A	Lab Control Spike	Water	3511	
LCSD 720-7467/3-A	Lab Control Spike Duplicate	Water	3511	
MB 720-7467/1-A	Method Blank	Water	3511	
720-3034-1	MW-1	Water	3511	
720-3034-2	MW-4	Water	3511	
720-3034-3	MW-8	Water	3511	
Analysis Batch:720-7711				
LCS 720-7467/2-A	Lab Control Spike	Water	8015B	720-7467
LCSD 720-7467/3-A	Lab Control Spike Duplicate	Water	8015B	720-7467
MB 720-7467/1-A	Method Blank	Water	8015B	720-7467
720-3034-1	MW-1	Water	8015B	720-7467
720-3034-2	MW-4	Water	8015B	720-7467
720-3034-3	MW-8	Water	8015B	720-7467

STL San Francisco

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-3034-1

Method Blank - Batch: 720-7802

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-7802/19

Analysis Batch: 720-7802

Instrument ID: Varian 3900C

Client Matrix: Water

Prep Batch: N/A

Lab File ID: c:\saturnws\data\200604\04

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 10 mL

Date Analyzed: 04/14/2006 1211

Final Weight/Volume: 10 mL

Date Prepared: 04/14/2006 1211

Analyte	Result	Qual	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
Surrogate	% Rec		Acceptance Limits
Toluene-d8	96		77 - 121
1,2-Dichloroethane-d4	114		73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-3034-1

Laboratory Control/ Laboratory Control Duplicate Recovery Report - Batch: 720-7802

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-7802/18
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/14/2006 1049
Date Prepared: 04/14/2006 1049

Analysis Batch: 720-7802
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900C
Lab File ID: c:\saturnws\data\200604\041
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-7802/17
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/14/2006 1116
Date Prepared: 04/14/2006 1116

Analysis Batch: 720-7802
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900C
Lab File ID: c:\saturnws\data\200604\041
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD				
Benzene	82	83	69 - 129	1	25	
MTBE	88	95	65 - 165	8	25	
Toluene	91	91	70 - 130	1	25	
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits	
Toluene-d8	104		99		77 - 121	
1,2-Dichloroethane-d4	99		101		73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-3034-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 720-7802

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 720-3037-A-3 MS Analysis Batch: 720-7802
Client Matrix: Water Prep Batch: N/A
Dilution: 50
Date Analyzed: 04/14/2006 1521
Date Prepared: 04/14/2006 1521

Instrument ID: Varian 3900C
Lab File ID: c:\saturnws\data\200604\
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-3037-A-3 MSD Analysis Batch: 720-7802
Client Matrix: Water Prep Batch: N/A
Dilution: 50
Date Analyzed: 04/14/2006 1548
Date Prepared: 04/14/2006 1548

Instrument ID: Varian 3900C
Lab File ID: c:\saturnws\data\200604\0\
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD				
Benzene	81	86	69 - 129	6	20	
MTBE	90	103	65 - 165	9	20	
Toluene	79	78	70 - 130	1	20	
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits	
Toluene-d8	99		97		77 - 121	
1,2-Dichloroethane-d4	112		112		73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-3034-1

Method Blank - Batch: 720-7934

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 720-7934/16

Analysis Batch: 720-7934

Instrument ID: Saturn 3900B

Client Matrix: Water

Prep Batch: N/A

Lab File ID: c:\saturnws\data\200604\04

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 10 mL

Date Analyzed: 04/19/2006 1021

Final Weight/Volume: 10 mL

Date Prepared: 04/19/2006 1021

Analyte	Result	Qual	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
Surrogate	% Rec	Acceptance Limits	
Toluene-d8	94	77 - 121	
1,2-Dichloroethane-d4	88	73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-3034-1

Laboratory Control/ Laboratory Control Duplicate Recovery Report - Batch: 720-7934

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-7934/15	Analysis Batch: 720-7934	Instrument ID: Saturn 3900B
Client Matrix: Water	Prep Batch: N/A	Lab File ID: c:\saturnws\data\200604\041
Dilution: 1.0	Units: ug/L	Initial Weight/Volume: 10 mL
Date Analyzed: 04/19/2006 0929		Final Weight/Volume: 10 mL
Date Prepared: 04/19/2006 0929		
LCSD Lab Sample ID: LCSD 720-7934/14	Analysis Batch: 720-7934	Instrument ID: Saturn 3900B
Client Matrix: Water	Prep Batch: N/A	Lab File ID: c:\saturnws\data\200604\041
Dilution: 1.0	Units: ug/L	Initial Weight/Volume: 10 mL
Date Analyzed: 04/19/2006 0955		Final Weight/Volume: 10 mL
Date Prepared: 04/19/2006 0955		

Analyte	% Rec.		RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD				
Benzene	96	95	69 - 129	1	25	
MTBE	101	94	65 - 165	8	25	
Toluene	102	102	70 - 130	0	25	
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits	
Toluene-d8	95		94		77 - 121	
1,2-Dichloroethane-d4	83		77		73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-3034-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 720-7934

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 720-3107-A-4 MS Analysis Batch: 720-7934
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0
Date Analyzed: 04/19/2006 1119
Date Prepared: 04/19/2006 1119

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200604\0
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-3107-A-4 MSD Analysis Batch: 720-7934
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0
Date Analyzed: 04/19/2006 1145
Date Prepared: 04/19/2006 1145

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200604\0
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD				
Benzene	100	109	69 - 129	8	20	
MTBE	109	131	65 - 165	18	20	
Toluene	101	109	70 - 130	8	20	
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits	
Toluene-d8	93		92		77 - 121	
1,2-Dichloroethane-d4	85		88		73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-3034-1

Method Blank - Batch: 720-7467

Method: 8015B

Preparation: 3511

Lab Sample ID: MB 720-7467/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/10/2006 1256
Date Prepared: 04/10/2006 0552

Analysis Batch: 720-7711
Prep Batch: 720-7467
Units: ug/L

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	% Rec	Acceptance Limits	
o-Terphenyl	94	60 - 130	

Laboratory Control/ Laboratory Control Duplicate Recovery Report - Batch: 720-7467

Method: 8015B

Preparation: 3511

LCS Lab Sample ID: LCS 720-7467/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/10/2006 1323
Date Prepared: 04/10/2006 0552

Analysis Batch: 720-7711
Prep Batch: 720-7467
Units: ug/L

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-7467/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/10/2006 1350
Date Prepared: 04/10/2006 0552

Analysis Batch: 720-7711
Prep Batch: 720-7467
Units: ug/L

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C9-C24]	64	65	50 - 150	1	25		
Surrogate		LCS % Rec	LCSD % Rec			Acceptance Limits	
o-Terphenyl		112	110			60 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

STL-San Francisco

ConocoPhillips Chain Of Custody Record 40320

ConocoPhillips Site Manager: SECOR International, Inc.		INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS Attn: Dee Hutchinson 3611 South Harbor, Suite 200 Santa Ana, CA. 92704	DATE: <u>4/15/06</u>
(925) 484-1919 (925) 484-1096 fax		PROJECT CONTACT (Name/Copy or PDF Report to): 3017 Kilgore Rd., Suite 100	PAGE: <u>1</u> of <u>1</u>
SAMPLE COMPANY: SECOR International, Inc.		VALID VALUE ID:	WNO 0527
TELEPHONE: 916-861-0400 ext. 280		E-MAIL: elawson@secor.com	GLOBAL ID NO.: T0604593174
FAX: 916-861-0430		SITE ADDRESS (Street and City): 720 N Franklin St. Ft. Bragg, CA	PHONE NO.: 916-861-0400
SAMPLE NAME(S)/PHM#: <u>ESY 1-AW-1</u>		CONSULTANT PROJECT NUMBER: 77CP 60927 07	E-MAIL: elawson@secor.com

REQUESTED ANALYSES

* Field Point name only required if different from Sample ID
Sample Identification
 Use Only
 Name* MW - 1 DATE 4/16/06 TIME 1435 MATRIX W NO. OF CONT. 1

14 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDI IS NEEDED

8260B - TPHg / BTEX / 8 Oxygenates

Turnaround Time (Calendar Days):

14 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

FIELD NOTES:
Container/Preservative
or PDI Readings
or Laboratory Notes

TEMPERATURE ON RECEIPT:

2

3 1/2, 3 VCP

* Field Point name only required if different from Sample ID
Field Point
 Use Only
 Name* MW - 4 DATE 4/16/06 TIME 1435 MATRIX W NO. OF CONT. 1

X

X

X

X

X

X

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X

X

X

X

X

X

Received by (Signature): J. M. Brinkley

Requisitioned by (Signature): J. M. Brinkley

Replaced/revised by (Signature)

Requered by (Signature)

Received by (Signature): J. M. Brinkley

Requisitioned by (Signature)

Requered by (Signature)

Date 4/6/06 Time 1225

Date Time

Date Time

91903 Revision

LOGIN SAMPLE RECEIPT CHECK LIST

Client: SECOR International, Inc.

Job Number: 720-3034-1

Login Number: 3034

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

SEVERN
TRENT

STL

ANALYTICAL REPORT

Job Number: 720-3487-1

Job Description: Conoco Phillips # 0220, Fort Bragg

For:
SECOR International, Inc.
3017 Kilgore Road
Suite 100
Rancho Cordova, CA 95670

Attention: Mr. Erik Lawson



Dimple Sharma
Project Manager I
dsharma@stl-inc.com
05/16/2006

Project Manager: Dimple Sharma

Severn Trent Laboratories, Inc.
STL San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 484-1096 www.stl-inc.com

METHOD SUMMARY

Client: SECOR International, Inc.

Job Number: 720-3487-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS Purge-and-Trap	STL-SF STL-SF	SW846 8260B SW846 5030B	
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	STL-SF	SW846 8015B	
Organic Compounds in Water by Microextraction	STL-SF		SW846 3511

LAB REFERENCES:

STL-SF = STL-San Francisco

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: SECOR International, Inc.

Job Number: 720-3487-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-3487-1	MW-1	Water	05/03/2006 0908	05/04/2006 0915
720-3487-2	MW-4	Water	05/03/2006 0915	05/04/2006 0915
720-3487-3	MW-8	Water	05/03/2006 0900	05/04/2006 0915

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-3487-1

Client Sample ID: MW-1

Lab Sample ID: 720-3487-1

Date Sampled: 05/03/2006 0908

Client Matrix: Water

Date Received: 05/04/2006 0915

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-8897	Instrument ID:	Saturn 3900B
Preparation:	5030B			Lab File ID:	c:\saturnws\data\200605\05
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	05/11/2006 1715			Final Weight/Volume:	10 mL
Date Prepared:	05/11/2006 1715				

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	0.96		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	99		77 - 121
1,2-Dichloroethane-d4	97		73 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-3487-1

Client Sample ID: MW-4

Lab Sample ID: 720-3487-2

Date Sampled: 05/03/2006 0915

Client Matrix: Water

Date Received: 05/04/2006 0915

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-8751	Instrument ID:	Varian 3900C
Preparation:	5030B			Lab File ID:	c:\saturnws\data\200605\05
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	05/09/2006 1529			Final Weight/Volume:	10 mL
Date Prepared:	05/09/2006 1529				

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	930		50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	105		77 - 121
1,2-Dichloroethane-d4	129		73 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-3487-1

Client Sample ID: MW-8

Lab Sample ID: 720-3487-3

Date Sampled: 05/03/2006 0900

Client Matrix: Water

Date Received: 05/04/2006 0915

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-8897	Instrument ID:	Saturn 3900B
Preparation:	5030B			Lab File ID:	c:\saturnws\data\200605\05
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	05/11/2006 1218			Final Weight/Volume:	10 mL
Date Prepared:	05/11/2006 1218				

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	130		50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	101		77 - 121
1,2-Dichloroethane-d4	88		73 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-3487-1

Client Sample ID: MW-1

Lab Sample ID: 720-3487-1

Date Sampled: 05/03/2006 0908

Client Matrix: Water

Date Received: 05/04/2006 0915

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-8821	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-8550	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35 mL
Date Analyzed:	05/06/2006 0346			Final Weight/Volume:	2 mL
Date Prepared:	05/05/2006 0710			Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	55		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	107		60 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-3487-1

Client Sample ID: MW-4

Lab Sample ID: 720-3487-2

Date Sampled: 05/03/2006 0915

Client Matrix: Water

Date Received: 05/04/2006 0915

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-8821	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-8550	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35 mL
Date Analyzed:	05/06/2006 0413			Final Weight/Volume:	2 mL
Date Prepared:	05/05/2006 0710			Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	1100		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	110		60 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-3487-1

Client Sample ID: MW-8

Lab Sample ID: 720-3487-3

Date Sampled: 05/03/2006 0900

Client Matrix: Water

Date Received: 05/04/2006 0915

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-8821	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-8550	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35 mL
Date Analyzed:	05/06/2006 0440			Final Weight/Volume:	2 mL
Date Prepared:	05/05/2006 0710			Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	780		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	112		60 - 130

DATA REPORTING QUALIFIERS

<u>Lab Section</u>	<u>Qualifier</u>	<u>Description</u>
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Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-3487-1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC/MS VOA				
Analysis Batch:720-8751				
LCS 720-8751/14	Lab Control Spike	Water	8260B	
LCSD 720-8751/13	Lab Control Spike Duplicate	Water	8260B	
MB 720-8751/15	Method Blank	Water	8260B	
720-3480-B-1 MS	Matrix Spike	Water	8260B	
720-3480-B-1 MSD	Matrix Spike Duplicate	Water	8260B	
720-3487-2	MW-4	Water	8260B	
Analysis Batch:720-8897				
LCS 720-8897/21	Lab Control Spike	Water	8260B	
LCSD 720-8897/20	Lab Control Spike Duplicate	Water	8260B	
MB 720-8897/22	Method Blank	Water	8260B	
720-3487-1	MW-1	Water	8260B	
720-3487-3	MW-8	Water	8260B	
720-3487-3MS	Matrix Spike	Water	8260B	
720-3487-3MSD	Matrix Spike Duplicate	Water	8260B	
GC Semi VOA				
Prep Batch: 720-8550				
LCS 720-8550/2-A	Lab Control Spike	Water	3511	
LCSD 720-8550/3-A	Lab Control Spike Duplicate	Water	3511	
MB 720-8550/1-A	Method Blank	Water	3511	
720-3487-1	MW-1	Water	3511	
720-3487-2	MW-4	Water	3511	
720-3487-3	MW-8	Water	3511	
Analysis Batch:720-8821				
LCS 720-8550/2-A	Lab Control Spike	Water	8015B	720-8550
LCSD 720-8550/3-A	Lab Control Spike Duplicate	Water	8015B	720-8550
MB 720-8550/1-A	Method Blank	Water	8015B	720-8550
720-3487-1	MW-1	Water	8015B	720-8550
720-3487-2	MW-4	Water	8015B	720-8550
720-3487-3	MW-8	Water	8015B	720-8550

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-3487-1

Method Blank - Batch: 720-8751

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 720-8751/15

Analysis Batch: 720-8751

Instrument ID: Varian 3900C

Client Matrix: Water

Prep Batch: N/A

Lab File ID: c:\saturnws\data\200605\05

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 10 mL

Date Analyzed: 05/09/2006 1123

Final Weight/Volume: 10 mL

Date Prepared: 05/09/2006 1123

Analyte	Result	Qual	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
Surrogate	% Rec	Acceptance Limits	
Toluene-d8	108	77 - 121	
1,2-Dichloroethane-d4	120	73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-3487-1

Laboratory Control/ Laboratory Control Duplicate Recovery Report - Batch: 720-8751

Method: 8260B

Preparation: 5030B

LCS Lab Sample ID: LCS 720-8751/14

Analysis Batch: 720-8751

Instrument ID: Varian 3900C

Client Matrix: Water

Prep Batch: N/A

Lab File ID: c:\saturnws\data\200605\0:

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 10 mL

Date Analyzed: 05/09/2006 0956

Final Weight/Volume: 10 mL

Date Prepared: 05/09/2006 0956

LCSD Lab Sample ID: LCSD 720-8751/13

Analysis Batch: 720-8751

Instrument ID: Varian 3900C

Client Matrix: Water

Prep Batch: N/A

Lab File ID: c:\saturnws\data\200605\05\

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 10 mL

Date Analyzed: 05/09/2006 1024

Final Weight/Volume: 10 mL

Date Prepared: 05/09/2006 1024

Analyte	% Rec.		RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD				
Benzene	86	91	69 - 129	5	25	
MTBE	100	104	65 - 165	5	25	
Toluene	95	100	70 - 130	6	25	
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits	
Toluene-d8	110		108		77 - 121	
1,2-Dichloroethane-d4	107		105		73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-3487-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 720-8751

Method: 8260B

Preparation: 5030B

MS Lab Sample ID: 720-3480-B-1 MS Analysis Batch: 720-8751
Client Matrix: Water Prep Batch: N/A
Dilution: 5.0
Date Analyzed: 05/09/2006 1407
Date Prepared: 05/09/2006 1407

Instrument ID: Varian 3900C
Lab File ID: c:\saturnws\data\200605\
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-3480-B-1 MSD Analysis Batch: 720-8751
Client Matrix: Water Prep Batch: N/A
Dilution: 5.0
Date Analyzed: 05/09/2006 1434
Date Prepared: 05/09/2006 1434

Instrument ID: Varian 3900C
Lab File ID: c:\saturnws\data\200605\05
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	101	99	69 - 129	2	20		
MTBE	98	83	65 - 165	4	20		
Toluene	103	106	70 - 130	2	20		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
Toluene-d8	108		111		77 - 121		
1,2-Dichloroethane-d4	108		104		73 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-3487-1

Method Blank - Batch: 720-8897

**Method: 8260B
Preparation: 5030B**

Lab Sample ID: MB 720-8897/22

Analysis Batch: 720-8897

Instrument ID: Saturn 3900B

Client Matrix: Water

Prep Batch: N/A

Lab File ID: c:\saturnws\data\200605\05

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 10 mL

Date Analyzed: 05/11/2006 1032

Final Weight/Volume: 10 mL

Date Prepared: 05/11/2006 1032

Analyte	Result	Qual	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
Surrogate	% Rec	Acceptance Limits	
Toluene-d8	101	77 - 121	
1,2-Dichloroethane-d4	90	73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-3487-1

Laboratory Control/ Laboratory Control Duplicate Recovery Report - Batch: 720-8897

Method: 8260B

Preparation: 5030B

LCS Lab Sample ID: LCS 720-8897/21
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/11/2006 0939
Date Prepared: 05/11/2006 0939

Analysis Batch: 720-8897
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200605\0!
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-8897/20
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/11/2006 1005
Date Prepared: 05/11/2006 1005

Analysis Batch: 720-8897
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200605\051
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD				
Benzene	98	108	69 - 129	10	25	
MTBE	91	96	65 - 165	5	25	
Toluene	111	122	70 - 130	9	25	
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits	
Toluene-d8	100		99		77 - 121	
1,2-Dichloroethane-d4	86		82		73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-3487-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 720-8897

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 720-3487-3 Analysis Batch: 720-8897
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0
Date Analyzed: 05/11/2006 1245
Date Prepared: 05/11/2006 1245

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200605\
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-3487-3 Analysis Batch: 720-8897
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0
Date Analyzed: 05/11/2006 1313
Date Prepared: 05/11/2006 1313

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200605\05
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	106	94	69 - 129	12	20		
MTBE	98	85	65 - 165	14	20		
Toluene	116	99	70 - 130	16	20		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
Toluene-d8	100		100		77 - 121		
1,2-Dichloroethane-d4	91		88		73 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-3487-1

Method Blank - Batch: 720-8550

Method: 8015B
Preparation: 3511

Lab Sample ID: MB 720-8550/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/05/2006 2342
Date Prepared: 05/05/2006 0710

Analysis Batch: 720-8821
Prep Batch: 720-8550
Units: ug/L

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	% Rec	Acceptance Limits	
o-Terphenyl	104	60 - 130	

Laboratory Control/ Laboratory Control Duplicate Recovery Report - Batch: 720-8550

Method: 8015B
Preparation: 3511

LCS Lab Sample ID: LCS 720-8550/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/06/2006 0009
Date Prepared: 05/05/2006 0710

Analysis Batch: 720-8821
Prep Batch: 720-8550
Units: ug/L

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-8550/3-A	Analysis Batch: 720-8821	Instrument ID: Varian DRO4
Client Matrix: Water	Prep Batch: 720-8550	Lab File ID: N/A
Dilution: 1.0	Units: ug/L	Initial Weight/Volume: 35 mL
Date Analyzed: 05/06/2006 0036		Final Weight/Volume: 2 mL
Date Prepared: 05/05/2006 0710		Injection Volume:
		Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C9-C24]	73	70	50 - 150	4	25		
Surrogate		LCS % Rec	LCSD % Rec			Acceptance Limits	
o-Terphenyl		97	101			60 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

STI -San Francisco

ConocoPhillips Chain Of Custody Record

40782

ConocoPhillips Site Manager:		CONOCOPHILLIPS	
INVOICE REMITTANCE ADDRESS:		Attn: Dee Hutchinson 3611 South Harbor, Suite 200 Santa Ana, CA. 92704	
720-3487		WNO.0927	
AMPLIFYING COMPANY: SECOR International, Inc.		Valid Value ID: Ft Bragg Bulk Plant # 0220	
ADDRESS: 1017 Kilgore Rd., Suite 100		CONOCOPHILLIPS SITE NUMBER SITE ADDRESS (Street and City): 720 N. Franklin St. Ft. Bragg, CA	
PROJECT CONTACT (Handcopy or PDF Report to): Erik Lawson		EDD DELIVERABLE TO (RP or Designee): Erik Lawson	
TELEPHONE: 916-861-0430		PHONE NO.: 916-861-0400	
FAX: 916-861-0430		E-MAIL: elawson@secor.com	
SAMPLE NAME(S) (Print): <i>Erik Lawson</i>		CONSULTANT PROJECT NUMBER 77CP.60927.07	
SPECIAL INSTRUCTIONS OR NOTES:		CHECK BOX IF EDD IS NEEDED <input checked="" type="checkbox"/>	
TURNDOWN TIME (CALENDAR DAYS):		<input type="checkbox"/> 14 DAYS <input type="checkbox"/> 7 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> LESS THAN 24 HOURS	
SPECIAL INSTRUCTIONS OR NOTES:		8266B - TPHg / BTEX / 8 Oxygenates	
Page: 18 of 20		Field Point name only required if different from Sample ID Sample Identification Field Point Name* Name* DATE 2017-08-10 TIME 14:30 MATRIX W NO. OF CONT. 6 MW - 1 MW - 2 MW - 3 MW - 4 MW - 5 MW - 6 MW - 7 MW - 8 Received by: (Signature) <i>Cliff Thiel</i> Date: 5-3-06 Reinquished by: (Signature) <i>Cliff Thiel</i> Date: 5-3-06 Received by: (Signature) <i>John Weller</i> Date: 5-4-06 Reinquished by: (Signature) <i>John Weller</i> Date: 5-4-06	
		FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	
		TEMPERATURE ON RECEIPT C° 22	

LOGIN SAMPLE RECEIPT CHECK LIST

Client: SECOR International, Inc.

Job Number: 720-3487-1

Login Number: 3487

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



STL

ANALYTICAL REPORT

Job Number: 720-4123-1

Job Description: Conoco Phillips # 0220, Fort Bragg

For:
SECOR International, Inc.
3017 Kilgore Road
Suite 100
Rancho Cordova, CA 95670

Attention: Mr. Erik Lawson

A handwritten signature in black ink, appearing to read "Dimple Sharma".

Dimple Sharma
Project Manager I
dsharma@stl-inc.com
06/26/2006

Project Manager: Dimple Sharma

METHOD SUMMARY

Client: SECOR International, Inc.

Job Number: 720-4123-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS Purge-and-Trap	STL-SF STL-SF	SW846 8260B SW846 5030B	
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	STL-SF	SW846 8015B	
Organic Compounds in Water by Microextraction	STL-SF		SW846 3511

LAB REFERENCES:

STL-SF = STL-San Francisco

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986
And Its Updates.

SAMPLE SUMMARY

Client: SECOR International, Inc.

Job Number: 720-4123-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-4123-1	MW-1	Water	06/15/2006 1510	06/16/2006 0855
720-4123-2	MW-4	Water	06/15/2006 1520	06/16/2006 0855
720-4123-3	MW-8	Water	06/15/2006 1535	06/16/2006 0855

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-4123-1

Client Sample ID: MW-1

Lab Sample ID: 720-4123-1

Date Sampled: 06/15/2006 1510

Client Matrix: Water

Date Received: 06/16/2006 0855

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-10267	Instrument ID:	Saturn 3900B
Preparation:	5030B			Lab File ID:	c:\saturnws\data\200606\06
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	06/22/2006 1903			Final Weight/Volume:	10 mL
Date Prepared:	06/22/2006 1903				

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	96		77 - 121
1,2-Dichloroethane-d4	80		73 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-4123-1

Client Sample ID: MW-4

Lab Sample ID: 720-4123-2

Date Sampled: 06/15/2006 1520

Client Matrix: Water

Date Received: 06/16/2006 0855

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-10267	Instrument ID:	Saturn 3900B
Preparation:	5030B			Lab File ID:	c:\saturnws\data\200606\06
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	06/22/2006 1929			Final Weight/Volume:	10 mL
Date Prepared:	06/22/2006 1929				

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	210		50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	96		77 - 121
1,2-Dichloroethane-d4	84		73 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-4123-1

Client Sample ID: MW-8

Lab Sample ID: 720-4123-3

Date Sampled: 06/15/2006 1535

Client Matrix: Water

Date Received: 06/16/2006 0855

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-10267	Instrument ID:	Saturn 3900B
Preparation:	5030B			Lab File ID:	c:\saturnws\data\200606\06
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	06/22/2006 1955			Final Weight/Volume:	10 mL
Date Prepared:	06/22/2006 1955				

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	76		50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	96		77 - 121
1,2-Dichloroethane-d4	82		73 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-4123-1

Client Sample ID: MW-1

Lab Sample ID: 720-4123-1

Date Sampled: 06/15/2006 1510

Client Matrix: Water

Date Received: 06/16/2006 0855

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-10230	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-10120	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35 mL
Date Analyzed:	06/21/2006 2022			Final Weight/Volume:	2 mL
Date Prepared:	06/20/2006 0748			Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	104		60 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-4123-1

Client Sample ID: MW-4

Lab Sample ID: 720-4123-2
Client Matrix: Water

Date Sampled: 06/15/2006 1520
Date Received: 06/16/2006 0855

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-10230	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-10120	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35 mL
Date Analyzed:	06/21/2006 2051			Final Weight/Volume:	2 mL
Date Prepared:	06/20/2006 0748			Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	410		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	110		60 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-4123-1

Client Sample ID: MW-8

Lab Sample ID: 720-4123-3

Date Sampled: 06/15/2006 1535

Client Matrix: Water

Date Received: 06/16/2006 0855

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-10230	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-10120	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35 mL
Date Analyzed:	06/21/2006 2120			Final Weight/Volume:	2 mL
Date Prepared:	06/20/2006 0748			Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	1900		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	106		60 - 130

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
--------------------	------------------	--------------------

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-4123-1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC/MS VOA				
Analysis Batch:720-10267				
LCS 720-10267/5	Lab Control Spike	Water	8260B	
LCSD 720-10267/4	Lab Control Spike Duplicate	Water	8260B	
MB 720-10267/6	Method Blank	Water	8260B	
720-4106-D-2 MS	Matrix Spike	Water	8260B	
720-4106-D-2 MSD	Matrix Spike Duplicate	Water	8260B	
720-4123-1	MW-1	Water	8260B	
720-4123-2	MW-4	Water	8260B	
720-4123-3	MW-8	Water	8260B	
GC Semi VOA				
Prep Batch: 720-10120				
LCS 720-10120/2-A	Lab Control Spike	Water	3511	
LCSD 720-10120/3-A	Lab Control Spike Duplicate	Water	3511	
MB 720-10120/1-A	Method Blank	Water	3511	
720-4123-1	MW-1	Water	3511	
720-4123-2	MW-4	Water	3511	
720-4123-3	MW-8	Water	3511	
Analysis Batch:720-10230				
LCS 720-10120/2-A	Lab Control Spike	Water	8015B	720-10120
LCSD 720-10120/3-A	Lab Control Spike Duplicate	Water	8015B	720-10120
MB 720-10120/1-A	Method Blank	Water	8015B	720-10120
720-4123-1	MW-1	Water	8015B	720-10120
720-4123-2	MW-4	Water	8015B	720-10120
720-4123-3	MW-8	Water	8015B	720-10120

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-4123-1

Method Blank - Batch: 720-10267

**Method: 8260B
Preparation: 5030B**

Lab Sample ID: MB 720-10267/6

Analysis Batch: 720-10267

Instrument ID: Saturn 3900B

Client Matrix: Water

Prep Batch: N/A

Lab File ID: c:\saturnws\data\200606\06

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 10 mL

Date Analyzed: 06/22/2006 1715

Final Weight/Volume: 10 mL

Date Prepared: 06/22/2006 1715

Analyte	Result	Qual	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
Surrogate	% Rec		Acceptance Limits
Toluene-d8	96		77 - 121
1,2-Dichloroethane-d4	82		73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-4123-1

Laboratory Control/ Laboratory Control Duplicate Recovery Report - Batch: 720-10267

Method: 8260B

Preparation: 5030B

LCS Lab Sample ID: LCS 720-10267/5

Analysis Batch: 720-10267

Instrument ID: Saturn 3900B

Client Matrix: Water

Prep Batch: N/A

Lab File ID: c:\saturnws\data\200606\06

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 10 mL

Date Analyzed: 06/22/2006 1622

Final Weight/Volume: 10 mL

Date Prepared: 06/22/2006 1622

LCSD Lab Sample ID: LCSD 720-10267/4

Analysis Batch: 720-10267

Instrument ID: Saturn 3900B

Client Matrix: Water

Prep Batch: N/A

Lab File ID: c:\saturnws\data\200606\06

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 10 mL

Date Analyzed: 06/22/2006 1648

Final Weight/Volume: 10 mL

Date Prepared: 06/22/2006 1648

Analyte	% Rec.		RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD				
Benzene	96	96	69 - 129	0	25	
MTBE	111	97	65 - 165	13	25	
Toluene	105	103	70 - 130	2	25	
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits	
Toluene-d8	94		93		77 - 121	
1,2-Dichloroethane-d4	76		75		73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-4123-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 720-10267

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 720-4106-D-2 MS Analysis Batch: 720-10267
Client Matrix: Water Prep Batch: N/A
Dilution: 20
Date Analyzed: 06/22/2006 2231
Date Prepared: 06/22/2006 2231

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200606\
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-4106-D-2 MSD Analysis Batch: 720-10267
Client Matrix: Water Prep Batch: N/A
Dilution: 20
Date Analyzed: 06/22/2006 2257
Date Prepared: 06/22/2006 2257

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200606\06
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	100	97	69 - 129	2	20		
MTBE	84	93	65 - 165	10	20		
Toluene	113	107	70 - 130	5	20		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
Toluene-d8	96		95		77 - 121		
1,2-Dichloroethane-d4	73		80		73 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-4123-1

Method Blank - Batch: 720-10120

Method: 8015B
Preparation: 3511

Lab Sample ID: MB 720-10120/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/21/2006 1150
Date Prepared: 06/20/2006 0748

Analysis Batch: 720-10230
Prep Batch: 720-10120
Units: ug/L

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	% Rec		Acceptance Limits
o-Terphenyl	101		60 - 130

Laboratory Control/ Laboratory Control Duplicate Recovery Report - Batch: 720-10120

Method: 8015B
Preparation: 3511

LCS Lab Sample ID: LCS 720-10120/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/21/2006 1217
Date Prepared: 06/20/2006 0748

Analysis Batch: 720-10230
Prep Batch: 720-10120
Units: ug/L

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-10120/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/21/2006 1244
Date Prepared: 06/20/2006 0748

Analysis Batch: 720-10230
Prep Batch: 720-10120
Units: ug/L

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C9-C24]	72	69	50 - 150	4	25		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
o-Terphenyl	101		96		60 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

LOGIN SAMPLE RECEIPT CHECK LIST

Client: SECOR International, Inc.

Job Number: 720-4123-1

Login Number: 4123

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

S E C O R

**ATTACHMENT 4
CONCENTRATION VS. TIME GRAPHS
OZONE INJECTION MONITORING WELLS**

Quarterly Monitoring and Summary Report
Bulk Plant No. 0220
720 North Franklin Street
Fort Bragg, California

Figure 1
MW-1 TPHg, TPHd, Benzene, and MtBE Groundwater Concentrations
 ConocoPhillips Site # 0220
 720 North Franklin St, Ft Bragg, California

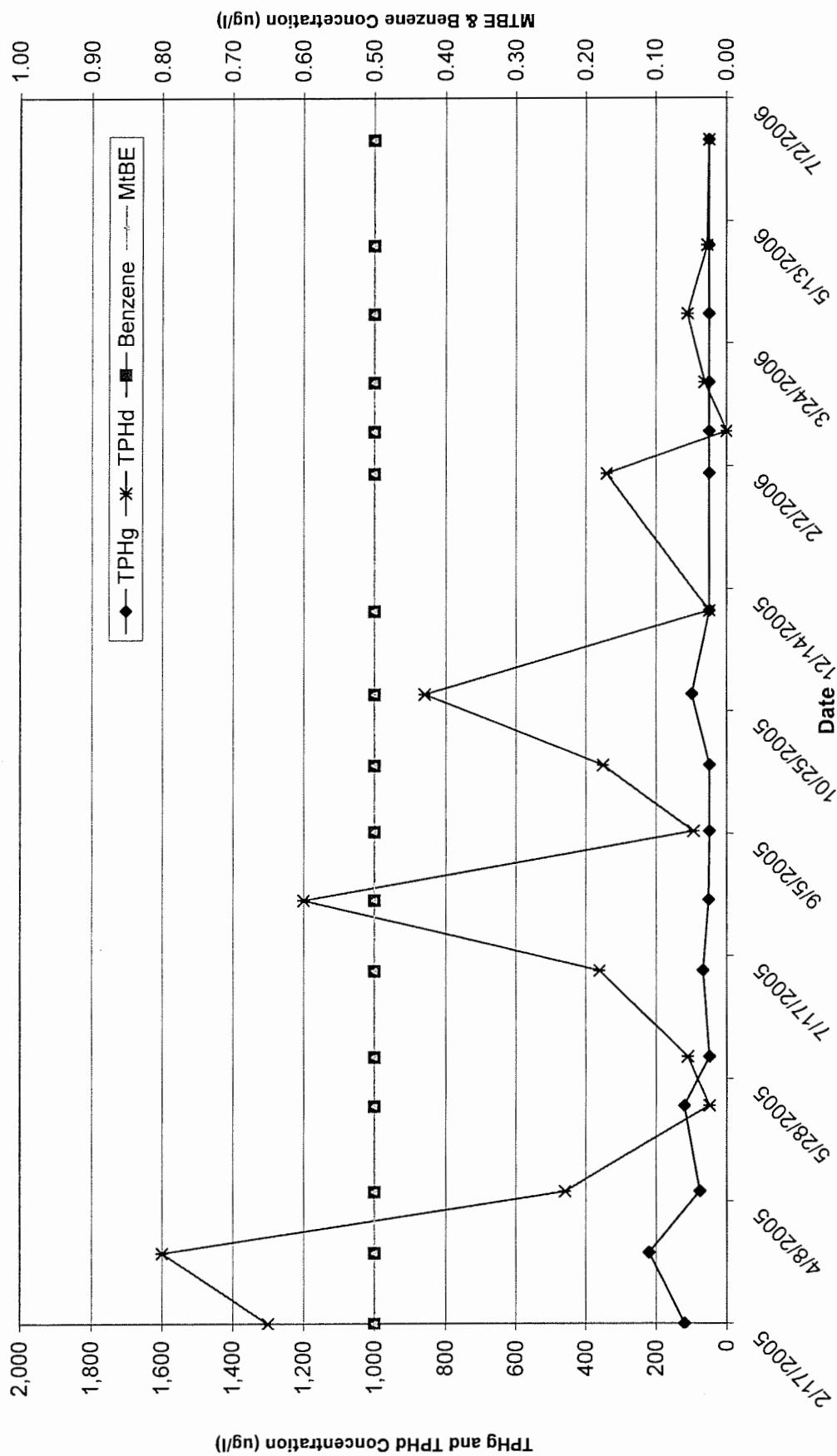


Figure 2
MW-4 TPHg, TPgd, Benzene, and MtBE Groundwater Concentrations
 ConocoPhillips Site # 0220
 720 North Franklin St, Ft Bragg, California

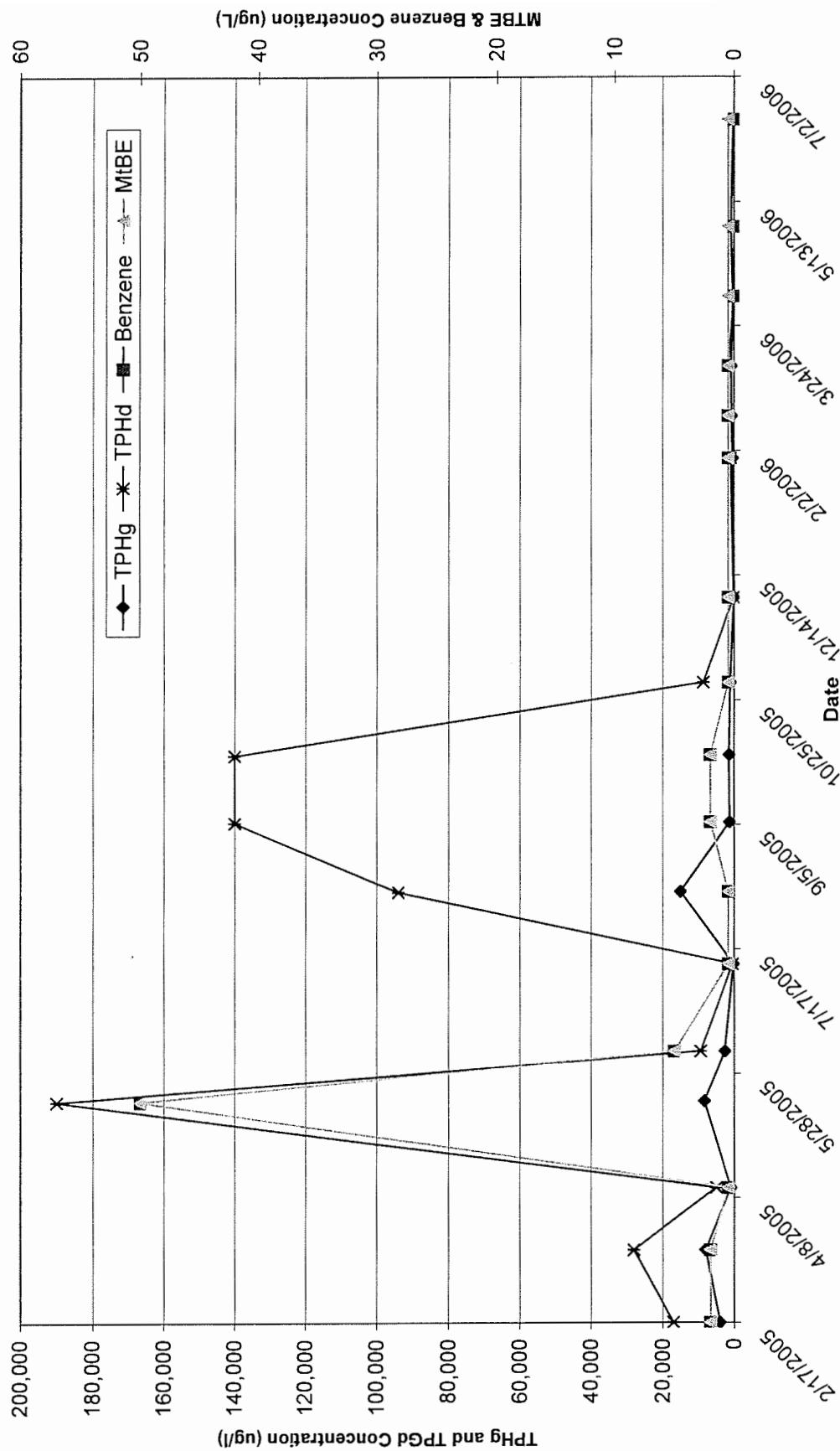


Figure 3
MW-8 TPHg, TPHd, Benzene, and MtBE Groundwater Concentrations
 ConocoPhillips Site # 0220
 720 North Franklin St, Ft Bragg, California

